CONSTRUCTION NEWS

PERSONALS, ENGINEERING SOCIETIES, ENGINEERING SCHOOLS, READERS' WANTS, INDUSTRIAL NOTES, PUBLICATIONS.

Supplement to ENGINEERING NEWS. New York, November 17, 1904.

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PERSONAL.

Mr. J. A. McRae has been appointed Mechanical Engineer of the Boston & Albany R. R., with headquarters at Boston, Mass.

Mr. Mace Moulton, M. Am. Soc. C. E., has established an office at 150 Nassau St., New York City, for practice as a Consulting Engineer.

Mr. F. M. Gilbert has been appointed Mechanical Engineer of the New York Central & Hudson River R. R., with headquarters at New York City.

Mr. T. R. Cummins has resigned his position as Roadmaster on the Illinois Central Ry. to accept that of Assistant Engineer on the Panama Canal.

Mr. Joseph A. Gordon has been promoted from Division Superintendent to be General Superintendent of the Cincinnati, Hamilton & Dayton Ry., with offices at Cincinnati, O.

Mr. Peter Maher has been appointed Superintendent of Motive Power of the Toledo, St. Louis & Western Ry., with headquarters at Frankfort, Ind. He succeeds Mr. G. W. Taylor, resigned.

Mr. G. E. Ellis has been appointed Signal Engineer of the Chicago, Rock Island & Pacific Ry., with headquarters at Chicago. He succeeds Mr. E. J. Reiplf, who has been assigned to other duties.

Mr. E. D. Grant, who for some time past has been Instructor in the department of Mathematics and Physics of the Michigan College of Mines, has recently been made Assistant Professor in the same department.

Mr. A. M. Meyers, formerly Assistant Engineer for Wisconsin Bridge & Iron Co., of Milwaukee, Wis., has opened an office as Contracting Engineer for the same company at 718 Dwight Bldg., Kansas City, Mo.

Mr. Lee Shaffer has opened an office as Consulting Engineer in Norfolk, Va., and will make a speciality of examinations, estimates and reports. Mr. Shaffer began his engineering work with the Rock Island R. R., in 1885.

Mr. Charles F. Barth has recently been appointed Foreman of the Steam Turbine Department at the West Allis Works of the Allis-Chalmers Co. Mr. Barth was formerly a foreman at the East Pittsburg works of the Westinghouse Machine Co.

Mr. E. H. Pfafflin, whose resignation as Superintendent and Chief Engineer of the Evansville & Terre Haute Ry. was noted last week, has been appointed Superintendent of Construction for the new line of the Southern Indiana Ry. from Terre Haute to Chicago.

Mr. Wayne Darlington has resigned his position as State Engineer of Idaho, and has accepted the position of General Manager of the Bagdad-Chase Mining Co.'s plant at Stagg, San Bernardino County, Cal. Mr. Darlington will be succeeded by Mr. James Stephenson, the present Assistant State Engineer.

Mr. R. C. Wright, for several years in charge of the design of special tools and fixtures used in the manufacture of steam turbines at the East Pittsburg works of the Westinghouse Machine Co., has resigned his position with that company to accept similar duties at the Milwaukee works of the Allis-Chalmers Co.

Mr. Charles Lang, formerly with the Wheeler Condenser & Engineering Co., has joined the sales department of the A. D. Granger Co. at the New York office, 95 Liberty St. Mr. Lang will make a specialty of pumps and condensers, the Granger Co. having recently acquired the agency for the Barr Pump Co., of Philadelphia, Pa.

Mr. C. A. Derby has resigned as Assistant Manager of the Lyon Cypress Lumber Co. to join the selling staff of the Allis-Chalmers Co., in its saw-mill department. Mr. Derby was formerly General Manager of the F. B. Dubach Lumber Co., and previously was in the engineering department of the Colorado Fuel & Iron Co., at Pueblo, Colo.

Mr. E. G. Coker, Associate Professor of Civil Engineering at McGill University, Montreal, Que., is stated to have accepted the position of Professor of Mechanical Engineering and Applied Mathematics in the City and Guilds of London Technical College, Finsbury, London, England. He succeeds Prof. W. E. Dalby, who has been appointed Professor of Civil and Mechanical Engineering in the Central Technical College, London, as successor to Professor Urwin, retired.

Mr. W. A. Nelson, who was appointed Superintendent of Equipment of the Allis-Chalmers Co., Oct. 1, 1904, began his services with that company in August, immediately after his resignation became effective as Assistant Superintendent of the Westinghouse Electric & Manufacturing Co. During his connection of nearly five years with the latter company, Mr. Nelson had immediate charge of the plans for the arrangement and location of machinery in the new East machine shop. Prior to his connection with the Pittsburg company, Mr. Nelson had similar duties at the works of Pratt & Whitney Co., going to Hartford from Fitchburg, where he had been Superintendent of the Simonds Rolling Machine Co. for a number of years.

OBITUARY.

D. B. Miller, City Engineer of Columbia, S. C., died suddenly of heart disease, Nov. 11.

George A. Richards, a civil engineer of Milwaukee, Wis., was killed in an accident at Chickasha, Ind. T., Nov. 6.

William H. Lawrence, a Consulting Electrician for the Viaduct Manufacturing Co., of Baltimore, Md., died at his home in that city, Nov. 5. He was the inventor of several appliances for the development of the telephone.

Rev. Dr. Charles Ferdinand Dowd, the devisor of the plan for one standard of railroad time, which was adopted in 1883 at a convention of railroad officials in New York City, was killed by a train at Saratoga, N. Y., Nov. 12.

Alexander Howell, a contractor who did much of the work of laying out Central Park, New York City, died at his home in that city Nov. 10. Mr. Howell was also the contractor for the foundation and masonry work in the erection of the Statue of Liberty. He was 72 years old.

George Lennox Watson, the yacht designer, died at his home in Glasgow, Nov. 12, of heart disease. He was considered the premier British designer of racing yachts, and designed the three Valkyries for Lord Dunraven, two of which raced for the America's Cup. He also designed the Shamrock II. for Sir Thomas Lipton. As a designer of steam yachts he was said to have no equal.

ENGINEERING SOCIETIES.

COMING MEETINGS.

SOCIETY OF NAVAL ARCHITECTS AND MARINE ENGINEERS.
Nov. 17 and 18, 1904. Annual meeting at New York, N. Y. Secy., Wm. J. Baxter, 12 West 31st St., New York.

ENGINE BUILDERS' ASSOCIATION OF THE UNITED STATES.
Dec. 2, 3, 1904. Annual meeting at New York, N. Y. Secy., D. Fleming, Harrisburg, Pa.

AMERICAN SOCIETY OF MECHANICAL ENGINEERS.
Dec. 6, 1904. Annual meeting at New York City, Secy., F. R. Hutton, 12 West 31st St., New York.

AMERICAN INSTITUTE OF ARCHITECTS.
Dec. 15 to 17, 1904. Annual meeting at Washington, D. C. Secy., Glenn Brown, Washington, D. C.

AMERICAN FOREST CONGRESS.
Jan. 2 to 6, 1905. At Washington, D. C., under the auspices of the American Forestry Association.

AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS.—The November meeting will be held at Carnegie Hall, 154 West 57th St., on the evening of Friday, Nov. 25. Mr. O. S. Lyford, Jr., will present a paper entitled "Problems in Electric Traction on the Long Island Railroad."

ENGINEERS' CLUB OF PHILADELPHIA.—A regular meeting will be held on Saturday evening, Nov. 19. The nominating committee will present a list of nominations for officers for 1905. Mr. E. L. Walker will read a paper entitled "Modern Electric Drives." The subject of a comprehensive park system for Philadelphia will be discussed; a special committee will report on this subject. Secy., J. O. Clarke.

NEW MEXICO SOCIETY OF ENGINEERS.—A movement to form an engineers' society in the Territory of New Mexico is being actively pushed. Mr. G. A. Collins, of Santa Fe, N. Mex., is doing much of the preliminary work. The western states have only recently become active in this direction of state engineering societies, and it is to be hoped that New Mexico will not fail to join in by forming a society as planned. Though not yet a state, it will then be in advance of some of its state neighbors, to its own advantage.

SOCIETY OF RAILWAY CLUB SECRETARIES.—A handy little pamphlet has just been issued by this society. It is entitled "Index of Papers and Subjects Discussed by Railway Clubs, May 31, 1903, to May 31, 1904." The year's proceedings of twelve railway clubs are given, including those of the Canadian Railway Club. The name and address of the secretary of each club is noted at the close of the pamphlet. The Society of Railway Club Secretaries holds its meetings annually, at the time of the Master Car Builders' and Master Mechanics' conventions. Mr. H. D. Vought, New York City, is secretary of the society.

ENGINEERS' SOCIETY OF WESTERN PENNSYLVANIA.—The subject for discussion at the regular meeting of Nov. 15 was "Designs for a Steel Water Flume," a paper by Mr. H. G. Balsom. Future meetings are announced as follows: Nov. 17, Chemical Section, discussion on the Nernst lamp; the meeting will be held at the Nernst Lamp Co., Garrison Place and Fayette St., and papers will be read by Messrs. L. A. Gerbine, Z. R. Zimmerman and Dr. Seifert. Nov. 22, Structural Section, discussion on Reinforced Concrete, led by Mr. R. A. Cummings. Dec. 6, Mechanical Section, discussion of a paper by Mr. F. W. Winter on "Facts Concerning Patents not Generally Understood."

AMERICAN FOREST CONGRESS.—An American Forest Congress under the auspices of the American Forestry Association will meet in Washington, D. C., Jan. 2 to 6, 1905. The purpose of this congress is to establish a broader understanding of the forest in its relation to the great industries depending upon it; to advance the conservative use of forest resources for both the present and the future need of these industries; to stimulate and unite all efforts to perpetuate the forest as a permanent resource of the nation. All who are interested in securing these ends are invited to attend this congress. The congress will include members and representatives of the national government, state government and foreign governments, forestry schools and societies, and delegates from many industries interested in forestry.

At 12 o'clock noon, Jan. 2, the delegates will be received in a body at the President's New Year's reception at the White House. Morning and afternoon sessions will be held on Jan. 3, 4, 5 and 6. A subject of wide industrial importance will be discussed at each session by men whose experience and standing qualify them to speak authoritatively upon it.

The subjects which will receive attention at separate sessions are: (1) Relation of the Public Forest Lands to Irrigation; (2) Relation of the Public Forest Lands to Grazing; (3) The Lumber Industry and the Forest; (4) Importance of the Public Forest Lands to Mining; (5) Forestry in Relation to Railroad Supplies; (6) National Forest Policy; (7) State Forest Policy.

The sessions of the congress will be held in the National Rifles Armory, 920 G St., N. W., which has a seating capacity of 800. All meetings at this hall will be open to the public. On the afternoon of Jan. 5 a special meeting will be held in the Lafayette Theater, which will be addressed by the President of the United States and other men prominent in our industrial and national life. Admission to this meeting will be by ticket. A rate of one and one-third fare for the round trip, on the certificate plan, has been granted by nearly all railroads in the United States and Canada in case one hundred persons attend the congress. In order to secure this rate delegates must procure certificates at starting points. The headquarters of the congress will be maintained at the National Rifles Armory for the registration of the delegates, the issuance of membership certificates, and the general information and convenience of those in attendance. The Secretary of the Committee on Arrangements for the Congress is Mr. Wm. L. Hall, Atlantic Bldg., Washington, D. C.

CIVIL SERVICE EXAMINATIONS FOR TECHNICAL POSITIONS.

Announcement is made in these columns from time to time of civil service examinations for technical positions. In all cases where the examinations are held by the United States Civil Service Commission, further information may be obtained by addressing the Secretary of that board at Washington, D. C.

COMPUTER.—U. S. Civil Service Commission will hold an examination, Dec. 14—15, at various places throughout the country, to secure eligibles to fill a vacancy in the position of computer, at $1,400 per year, in the Supervising Architect's Office, and similar vacancies as they may occur in that office.

AID, COAST AND GEODETIC SURVEY.—U. S. Civil Service Commission will hold an examination Dec. 14-15 at various places throughout the country to fill two vacancies in the position of aid, at $720 per year each, in the Coast and Geodetic Survey, and similar vacancies as they may occur. The age limit is 18 to 25 years.

FIRST-CLASS STEAM ENGINEER.—U. S. Civil Service Commission will hold an examination Dec. 14, at various places throughout the country, to secure eligibles to fill a vacancy in the position of engineer in the Government Printing Office, at $4 per day, and similar vacancies as they may occur. For the specific vacancy mentioned above applicants should be familiar with compound condensing engines and with the Scotch type of boilers.

ARCHITECT.—U. S. Civil Service Commission will hold an examination, Dec. 28, to secure eligibles to fill a vacancy in the position of architect, at $3,500 per annum, to be engaged on the work of reconstructing the United States Military Academy at West Point, N. Y., another vacancy in the position of architect, at $5,000 per annum, to be employed in supervising the erection and remodeling of permanent army posts, and similar vacancies as they may occur in that department.

The examination will consist of certain questions relative to the applicant's professional training and experience, and the submission by him of one set of drawings of some work of which he is the author, and at least five photographs of work which has been constructed under his personal supervision from drawings or designs prepared by him. Applicants will also be required to give as references the names of persons who have an intimate knowledge of their professional ability and reputation. Applicants must have had at least ten years of practical experience exclusive of their preliminary training. The minimum age limit is 35 years.

CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.), may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close	Work.	Place.	On file.	See issue.
Nov.				
19	Retaining wall	Wash., D. C.	S.	10-27
22	Retaining wall,	Ft. Riley, Kan.	P. S. & B. S.	11-10
25	Water-works mat'rl.	Wash., D.C.	S.	11-10
29	Bridge	Cortlandt, N. Y.	S.	11-10
*29	Tunnel	Boston, Mass.	P. & S.	10- 3
Dec.				
*1	Bridge	Manila, P. I.	P., S. & B. S.	7-28
*1	Light-house	Tompkinsville, N. Y.	S. P. B. S.	11- 3
*1	Sewers	St. Joseph, Mo.	P. S., B. S.	11-10
*15	Water-works	Santiago de Cuba	P. & S.	11-17
*15	Water supply	Cuba	P. & S.	11-17
*20	Dam and lock	Boston, Mass.	P. & S.	11-17

*Work advertised in Engineering News.

NOTE.—We are desirous of securing specifications and bidding sheets (and plans when not too bulky) of pending work for file in our New York office for the benefit of contractors or others who may be interested in the work. If more sets than one are sent us we shall be pleased to distribute these to contractors who ask for them. When the work is advertised in Engineering News a note that the plans are filed with us will be added to the advertisement without cost.

LIST OF CONTRACTS PENDING.

Bids close.	Work.	Place.	See issue.
	LIGHT, HEAT AND POWER PLANTS.		
Nov. 21	Electrical machinery	Alameda, Cal.	Nov. 17
Nov. 23	Engines, etc.,	New York, N. Y.	Nov. 10
Nov. 25	City lighting,	Minneapolis, Minn.	Nov. 17
Nov. 25	Gasoline lamps,	Minneapolis, Minn.	Nov. 17
Nov. 26	City lighting,	San Antonio, Tex.	Nov. 10
Nov. 26	Street lighting,	Evansville, Ind.	Nov. 3
	Advertised, Eng. News, Nov. 3 and 10.		
Dec. 1	City lighting,	Newport, Ky.	Nov. 17
Dec. 1	Power house sale,	Chambersburg, Pa.	Nov. 17
Dec. 6	Electric lights, plant, etc.,	Dallas, Tex.	Oct. 27
	Advertised, Eng. News, Oct. 27 and Nov. 3.		
	BRIDGES.		
Nov. 17	Bridges, steel,	Evansville, Ind.	Oct. 27
Nov. 18	Bridge,	Rathdrum, Idaho	Nov. 10
Nov. 21	Bridge, repair,	Binghamton, N. Y.	Nov. 3
	Advertised, Eng. News, Nov. 3 and 10.		
Nov. 22	Bridge,	Harrisburg, Pa.	Nov. 10
Nov. 25	Bridge, superstructure,	Cincinnati, O.	Nov. 3
Nov. 25	Bridge,	Spokane, Wash.	Nov. 17
Nov. 28	Bridge,	Fredericton, N. B.	Nov. 17
Nov. 29	Bridge, superstructure,	Cortlandt, N. Y.	Nov. 10
Nov. 30	Bridge,	Akron, O.	Nov. 17
Dec. 1	Bridge superstructure,	Manila, P. I.	July 28
	Advertised, Eng. News, July 28 to Dec. 1.		
Dec. 3	Bridge,	Moscow, Idaho	Nov. 17
Dec. 5	Bridge,	Dillon, Mont.	Oct. 20
Dec. 7	Bridges,	Eau Claire, Wis.	Nov. 3
	Advertised, Eng. News, Nov. 3 and 10.		
Dec. 14	Bridges,	Belgium	Nov. 10
	BUILDINGS.		
Nov. 17	Steam heating,	Athens, Ga.	Oct. 27
Nov. 17	Army building,	Ft. Meade, S. Dak.	Oct. 20
	Advertised, Eng. News, Oct. 20 to Nov. 10.		
Nov. 17	Hospital buildings,	Schenectady, N. Y.	Oct. 6
Nov. 18	School work,	Chicago, Ill.	Nov. 17
Nov. 21	Hospital,	Knoxville, Tenn.	Nov. 17
Nov. 21	Post office,	Ottawa, Ill.	Oct. 20
Nov. 22	Post office,	Georgetown, S. C.	Oct. 20
Nov. 22	Hospital, etc.,	Sacramento, Cal.	Nov. 10
Nov. 22	Foundation walls,	New York, N. Y.	Nov. 17
Nov. 23	Church,	Dublin, Ga.	Nov. 17
Nov. 23	Church,	Chicago, Ill.	Nov. 10
Nov. 24	Post office,	Hoquiam, Wash.	Nov. 3
Nov. 26	Building,	Lincoln, Neb.	Nov. 17
Nov. 26	Gas Fixtures,	Chattanooga, Tenn.	Nov. 17
	Advertised, Eng. News, Nov. 17 and 24.		
Nov. 28	Sanitary work,	New York, N. Y.	Nov. 17
Nov. 28	Ventilating, etc.,	New York, N. Y.	Nov. 17
Nov. 29	Engine house, etc.,	New York, N. Y.	Nov. 17
Nov. 29	Repair shop,	Ft. Totten, N. Y.	Nov. 3
	Advertised, Eng. News, Nov. 3 to 24.		
Nov. 30	Post office,	Anderson, Ind.	Nov. 3
	Advertised, Eng. News, Nov. 3 and 10.		
Nov. 30	School plans,	Pasadena, Cal.	Nov. 10
Nov. 30	Barracks,	Walla Walla, Wash.	Nov. 17
Nov. 30	Barracks, etc.,	New Orleans, La.	Nov 17
Dec. 1	Light-house,	Tompkinsville, N. Y.	Nov 3
	Advertised, Eng. News, Nov. 3 and 10.		
Dec. 2	Fair buildings,	Columbus, O.	Nov. 10
Dec. 3	Hall, etc.,	Delaware, O.	Nov. 17
Dec. 8	Steam power, etc.,	New York, N. Y.	Nov. 17
Dec. 10	Church,	Chicago, Ill.	Nov. 17
Dec. 10	Railway station,	Mobile, Ala.	Nov. 10
Dec. 12	Court house,	Providence, R. I.	Nov. 3
Dec. 13	Steam heating,	Portland, Ore.	Nov. 17
Dec. 14	Electric work,	Cheyenne, Wyo.	Nov. 17
	Advertised, Eng. News, Nov. 17 to Dec. 8.		
Dec. 14	Buildings,	Cheyenne, Wyo.	Nov. 17
	Advertised, Eng. News, Nov. 17 to Dec. 8.		
Dec. 14	Post office,	Biloxi, Miss.	Nov. 3
	Advertised, Eng. News, Nov. 3 and 10.		
Dec. 15	Post office,	Norristown, Pa.	Nov. 3
	Advertised, Eng. News, Nov. 3 and 10.		
Dec. 17	Library,	Denver, Colo.	Nov. 3
Dec. 20	Steam heating,	Harrison, Ark.	Nov. 17
	Advertised, Eng. News, Nov. 17 and 24.		
Dec. 29	Hotel,	Victoria, B. C.	Nov. 3
	WATER SUPPLY AND IRRIGATION.		
Nov. 17	Pumping engines,	Chicago, Ill.	Sept. 22
	Advertised, Eng. News, Sept. 22 to Nov. 17.		
Nov. 18	Water-works,	Barnesville, O.	Nov. 17
Nov. 20	Artesian well,	Charles City, Ia.	Nov. 10
Nov. 21	Artesian well,	Lisbon, N. Dak.	Nov. 10
Nov. 21	Water supply system,	Denver, Colo.	Nov. 17
Nov. 22	Water mains, etc.,	Muskogee, Ind. T.	Nov. 10
Nov. 23	Hydrants,	New York, N. Y.	Sept. 29
Nov. 24	Water-works,	Aberdeen, Miss.	Nov. 10
	Advertised Eng. News, Nov. 10.		
Nov. 25	Water-works,	Stewartstown, Pa.	Nov. 10
	Advertised, Eng. News, Nov. 10 and 17.		
Nov. 25	Water-works material,	Washington, D. C.	Nov. 10
Nov. 25	Water-works,	Marion, N. C.	Nov. 17
	Advertised, Eng. News, Nov. 10.		
Nov. 29	Pumping engine,	Milwaukee, Wis.	Nov. 17
Nov. 30	Hydrants,	New York, N. Y.	Nov. 10
Dec. 1	Air compressor,	Washington, Ia.	Nov. 3
Dec. 1	Boilers,	Chicago, Ill.	Nov. 17
Dec. 6	Laying water mains, etc.,	New York, N.Y.	Nov. 17
Dec. 7	Water-works,	Carrollton, Ga.	Nov. 17
	Advertised, Eng. News, Nov. 17 to Dec. 8.		
Dec. 15	Water supply,	Cuba	Nov. 17
	Advertised, Eng. News, Nov. 17 to Dec. 8.		
Dec. 19	Water-works,	Holland, Minn.	Nov. 10
Dec. 20	Pipe,	Toronto, Ont.	Nov. 3
	Advertised, Eng. News, Nov. 3 and 10.		
Dec. 21	Pumps, boilers, engines,	England	Nov. 17
No date	Water pipe,	Raton, N. Mex.	Nov. 17
	Advertised, Eng. News, Nov. 17.		
	SEWERAGE.		
Nov. 21	Sewers,	Cincinnati, O.	Nov. 3
Nov. 21	Sewers,	Montreal, Que.	Nov. 17
Nov. 21	Sewer,	Auburn, N. Y.	Nov. 17
Nov. 22	Sewers,	New York, N. Y.	Nov. 17
Nov. 22	Sewer system,	Griffin, Ga.	Nov. 3
	Advertised, Eng. News, Nov. 3 to 17.		
Nov. 23	Sewers,	Cincinnati, O.	Nov. 3
Nov. 25	Sewer,	Le Sueur, Minn.	Nov. 17
Nov. 26	Sewer,	Dixon, Ill.	Nov. 17
Dec. 1	Sewers,	Havre de Grace, Md.	Nov. 3
	Advertised Eng. News, Nov. 3 to 17.		
Dec. 1	Sewers,	St. Joseph, Mo.	Nov. 10
	Advertised, Eng. News, Nov. 10 and 17.		
Dec. 2	Sewers,	Omaha, Neb.	Oct. 13
Dec. 6	Sewers,	Los Angeles, Cal.	Nov. 10
	STREETS AND ROADS.		
Nov. 18	Roads,	Toledo, O.	Nov. 3
Nov. 18	Macadamizing,	St. Bernard, O.	Nov. 3
Nov. 18	Grading,	Galveston, Tex.	Nov. 17
Nov. 18	Grading, etc.,	Indianapolis, Ind.	Nov. 17
	Advertised, Eng. News, Nov. 17 and Dec. 8.		
Nov. 19	Paving, etc.,	New Philadelphia, O.	Nov. 10
Nov. 21	Paving, asphalt,	Binghamton, N. Y.	Nov. 3
	Advertised, Eng. News, Nov. 3 and 10.		
Nov. 21	Paving,	Anderson, Ind.	Nov. 17
Nov. 22	Macadamizing,	Somerville, N. J.	Nov. 3
Nov. 22	Grading, etc.,	Green Bay, Wis.	Nov. 3
Nov. 23	Paving,	Belleville, Ill.	Nov. 10
Nov. 26	Macadamizing,	Cincinnati, O.	Nov. 10
Nov. 28	Road,	Harrisburg, Pa.	Nov. 3
Dec. 1	Sidewalks,	Keokuk, Ia.	Nov. 3
Dec. 19	Paving, vitrified brick,	Webb City, Mo.	Nov. 17
	MISCELLANEOUS CONTRACTS.		
Nov. 17	Tunnel,	Boston, Mass.	Nov. 3
	Advertised, Eng. News, Nov. 3 and 10.		
Nov. 17	Lumber, plank,	New York, N. Y.	Nov. 10
Nov. 17	Railway,	England	Nov. 10
Nov. 19	Retaining wall,	Washington, D. C.	Oct. 27
Nov. 19	Steel castings, etc.,	Washington, D. C.	Nov. 3
Nov. 21	Dredging,	Washington, D. C.	Nov. 17
	Advertised, Eng. News, Nov. 17.		
Nov. 21	Fireboat repairs, etc.,	New York, N. Y.	Nov. 17
Nov. 22	Retaining wall,	Fort Riley, Kan.	Nov. 10
Nov. 23	Telegraph material,	Australia	Oct. 6
Nov. 23	Garbage disposal,	Somerville, Mass.	Nov. 17
Nov. 23	Garbage removal,	New York, N. Y.	Nov. 17
Nov. 25	Trench pumps,	Washington, D. C.	Nov. 17
Nov. 25	Fish hatchery,	Gloucester, Mass.	Nov. 17
Nov. 26	Steel vessel,	Detroit, Mich.	Oct. 20
Nov. 26	Retaining wall, tile drain,	Bowdre, Ill.	Nov. 17
Nov. 27	Filling,	Columbus, O.	Nov. 17
Nov. 28	Wharf, bridge,	Fredericton, N. B.	Nov. 10
Nov. 28	Ditch,	Chaska, Minn.	Nov. 17
Nov. 29	Naval supplies,	Washington, D. C.	Nov. 17
Nov. 29	Ditches,	Glencoe, Minn.	Nov. 17
Nov. 29	Repair shops,	Ft Totten, N. Y.	Nov. 10
Nov. 29	Boiler plant, etc.,	West Point, N. Y.	Nov. 10
	Advertised, Eng. News, Nov. 10 and 17.		
Nov. 30	Timber, drainage,	New Orleans, La.	Sept. 29
	Advertised, Eng. News, Sept. 29 to Dec. 1.		
Dec. 1	Railway,	Somerset Ry.	Nov. 3
	Advertised, Eng. News, Nov. 3 to 24.		
Dec. 1	Bulkhead,	Buffalo, N. Y.	Nov. 10
Dec. 3	Coal handling plant,	New Orleans, La.	Oct. 20
Dec. 7	Crematory,	Portland, Me.	Nov. 17
Dec. 8	Dredging,	San Francisco, Cal.	Nov. 17
Dec. 8	Electric elevator,	Washington, D. C.	Nov. 17
	Advertised, Eng. News, Nov. 17 and		
Dec. 12	Monuments,	Wilmington, N. C.	Nov. 17
	Advertised, Eng. News, Nov. 17 to Dec.		
Dec. 13	Machine tools,	Washington, D. C.	Nov. 17
Dec. 13	Electric elevator,	Washington, D. C.	Nov. 17
Dec. 14	Hydraulic lift lock,	Kirkfield, Ont.	Nov. 17
Dec. 15	Battleship,	Washington, D. C.	Nov. 10
Dec. 16	Crib superstructure,	Chicago, Ill.	Nov. 29
Dec. 16	Window and door screens,	Prescott, Ariz.	Nov. 17
	Advertised, Eng. News, Nov. 17 to Dec. 15		
Dec. 20	Compressor,	Washington, D. C.	Nov. 17
Dec. 20	Dam and lock,	Boston, Mass.	Nov. 17
	Advertised, Eng. News, Nov. 10 to Dec. 8		
Dec. 25	Coal unloading apparatus,	Belgium	Nov. 20
Dec. 27	Cranes, etc.,	South Africa	Nov. 10
Dec. 28	Telephone material, etc.,	Australia	Nov. 17
Mar. 31	Electric railway,	China	Nov. 20
	Advertised, Eng. News, Oct. 20 to Dec. 20.		

Write our advertisers when you intend to buy your supplies and machinery for improvements, or for carrying out your contracts. If you do not find what you want in our advertising pages write us for list of firms, and we will put you in communication with them at once.

RAILWAYS.

CENTRAL OF GEORGIA.—Engineers are reported to be running a survey for a line from Greens Cut to Louisville, Ga., or from Waynesboro to Louisville, Ga. H. M. Steele, Savannah, Ga., is Ch. Engr.

CHICAGO, BURLINGTON & QUINCY.—Contracts for steel rails and steel structural work, involving expenditure of several million dollars, are reported to have been entered into with the Carnegie Steel Co. of Pittsburg, Pa. G. G. Yeomans, Chicago, is Purchasing Agt.

CHICAGO & NORTH WESTERN.—Preliminary surveys are reported to have been made for a cut-off from Menasha towoc, Wis., north through Green Bay to Gillett, 75 miles. E. C. Carter, Chicago, is Ch. Engr.

CHICAGO & NORTHWESTERN.—Two extensions will be built in northern Wisconsin. One branch will be built from a point on the main line near Mercer, Wis., and will extend in a northeasterly direction to a point on the Michigan boundary line. It will be 25 miles in length in Wisconsin, and it is probable that it will be continued into Michigan. The other branch will be built from a point in Forest county and will extend also in a northeasterly direction to the state line. This will be 30 miles in length in Wisconsin. E. C. Carter, Chicago, is Ch. Engr.

COLORADO, TEXAS & MEXICO.—Citizens of Abilene, Tex., have accepted proposition offered by this company and will raise $60,000 bonus required. The line will run from Haskell to Coleman or Ballinger, Tex. Morris L. Locke, of Abilene, is Pres. of the Colorado, Texas & Mexico. As announced last week the San Saba Construction Co. has been chartered to build this railway.

DENVER & RIO GRANDE.—Bell & Levy, of Pueblo, Colo., have been awarded contract for grading and construction of a 7-mile extension northwest from Walsenburg, Colo. E. J. Yard, Denver, Colo., is Ch. Engr.

EL PASO & SOUTHWESTERN.—Car shops will be erected by this company at Douglas, Ariz. They will cost $50,000 to $75,000. Buildings will be 70 × 100 ft., of brick construction. Walter Douglas, Bisbee, Ariz., is Managing Dir.

FLORIDA EAST COAST.—A branch line may be built from Orange City to Deland, Fla., 10 miles. R. T. Golf, St. Augustine, Fla., is Gen. Supt.

GEORGIA.—It is planned, according to reports, to build a railroad from Alexandria, Ala., to connect with Birmingham extension of Seaboard Air Line, near the Coosa River. About four miles have already been built, and six or eight miles additional will be required. L. B. Parsons, Supt., of the Seaboard at Cedartown, Ga., may be interested.

GEORGIA, FLORIDA & ALABAMA.—An extension will be made from Havana to Quincy, Fla., it is reported. According to another report surveys have been made for constructing an extension from Cuthbert, Ga., to Columbus and Atlanta. A deed for $1,100,000 has been filed to secure an issue of bonds to make this extension. Proposed route is from Cuthbert to Richland, and thence to Columbus and Atlanta, or from Cuthbert to both of these places. Another route is from Cuthbert, near Spring Vale, and thence to the Chattahoochee River valley, and up this valley to Columbus. Purchase of the Carrabelle, Tallahassee and Georgia railroad, from Carrabelle, Fla., on the gulf, to Tallahassee, Fla., will be made with proposed bonds. This road is now owned personally by J. P. Williams, the Pres. of Georgia, Florida & Alabama.

KETTLE VALLEY LINES.—Capital is reported to have been secured for construction of the line from Republic to Spokane, Wash. H. W. Warrington, Grand Forks, B. C., is Ch. Engr.

LAKE SUPERIOR & SOUTHEASTERN.—Survey for construction of this railway from Marshfield to Superior, Wis., is reported to have been completed into the latter city. Company was chartered in October.

LOUISIANA.—The Crowell & Spencer Lumber Co., Longleaf, La., is reported taking bids for eleven miles of railroad grading.

LOUISVILLE & NASHVILLE.—Chattanooga, Tenn., "News" states that the company will build into Chattanooga from some point in Murray County, probably from Beaverdale.

MISSOURI & IOWA SOUTHERN.—Col. A. L. Strang, of Sedalia, Mo., Pres. of proposed Missouri & Iowa Southern Co., is reported to have stated that capital has been secured but no further arrangements made for building a 52-mile standard-gage from Sedalia, Mo., via Marshall to Miami, Saline County. Route has been surveyed.

MISSOURI, KANSAS & TEXAS.—Contracts are reported to have been awarded for building an extension from Oklahoma City, Okla., to Wichita Falls, Tex. Three routes are being considered, one from Oklahoma City to Wichita Falls, one from Shawnee to Wichita Falls, the other from Guthrie to Wichita Falls, but former route probably will be the one accepted, it is stated. S. B. Fisher, St. Louis, Mo., is Ch. Engr.

F. N. Finney, of Missouri, Kansas & Oklahoma (M., K. & T.) is reported as saying that the lines will be improved and ballasted with stone, but that no action has been taken about an extension to Texas.

MOBILE & OHIO.—Surveyors, said to be in employ of the M. & O., have been running preliminary lines near Gulfport, Pascagoula and Biloxi, Miss. Reports state that M. & O. will build new harbor terminals.

MOBILE & WESTERN ALABAMA.—Birmingham, Ala., "News" is authority for statement that Col. J. A. Montgomery is engineer in charge of a survey now being run for the proposed Mobile & Western Alabama Railroad, that will be built from Birmingham through the valleys of the Cahaba and Alabama Rivers to Mobile, and that later will be built northward from Birmingham to Florence and Huntsville. It is reported that a construction company with $500,000 capital has been organized in New York to build the line.

NEW YORK, NEW HAVEN & HARTFORD.—The line between Stormville and Towners, N. Y., on the Highland Division, will be double-tracked soon. It will be about 25 miles long. Cost is placed at $750,000. It is reported that double tracks will be laid, in the future, through Danbury to Hawleyville, Conn.

ORANGE & NORTHWESTERN.—Application will be made to Texas Railroad Commission by Judge J. A. Holland, attorney for this company, for authority to issue additional bonds for work on this road. H. L. Montandon, Orange, Tex., is Ch. Engr.

OREGON.—Cottage Grove report states that P. J. Jennings will build a railroad from numerous coal mines near Coos Bay, through the Bohemia district, into eastern portion of the state, with branch lines from Cottage Grove to Portland, via Corvallis.

PENNSLYVANIA RY.—A. J. Cassatt, Pres. of Pennsylvania Railroad, has appointed a committee consisting of Theodore N. Ely, Chief of Motive Power; William H. Brown, A. W. Gibbs, D. S. Newhall and A. S. Vogt to supervise the construction of the New York extension.

SAN DIEGO, IMPERIAL VALLEY & EASTERN.—This road will be built from San Diego, Cal., to Yuma, Ariz., at an estimated cost of $5,000,000. Citizens of San Diego at recent mass meeting declared themselves in favor of connecting and declared themselves in favor of constructing the road and bonds for this purpose will be bought up. A committee was appointed to solicit subscriptions as follows: Francis M. Ellcott, Eugene E. Shaffer, W. R. Rogers, A. Haines, D. C. Collier, Jr., F. W. Stearnes, D. C. Reed, I. Isaac Irwin, J. MacMullen, J. M. Dodge and others. Will Holcomb is interested.

SANTA FE CENTRAL.—Plans are materializing, it is said, for preliminary survey of route for the Denver & El Paso Short Line Ry., as the Santa Fe Central extension is officially called. It will run northward from El Paso, Tex., through Las Cruces and thence east and north around the Organ mountains to Willard station on the Santa Fe Central, 210 miles. Estimated cost is $4,000,000, including equipment. C. R. Morehead, J. P. Dieter, C. N. Bassett, Joseph Magoffin, George Hilzinger, and others, of El Paso, are interested. It was reported in September that the Santa Fe Central had reorganized at El Paso, Tex., with C. B. Morehead, Pres., and A. B. Fall, Gen. Attorney. Preliminary survey was to be made for 100-mile extension from Torrance, N. Mex., to El Paso. W. D. Lee, Santa Fe, N. Mex., is Gen. Mgr.

SOUTH & NORTH ALABAMA RY.—Special meeting of stockholders has been called for Nov. 26 to be held at Montgomery, Ala., to consider proposition to issue $2,000,000 of improvement bonds. G. W. Craik is Secy.

ST. LOUIS & SAN FRANCISCO.—Plans are said to have been approved for the Chalmette terminals at New Orleans, La., and also for the new depot in this city. Improvements will cost $2,000,000. J. F. Hinckley, St. Louis, Mo., is Ch. Engr.

WESTERN PACIFIC.—M. J. Heney, of Seattle, Wash., is said to have contract for grading line between San Francisco, Cal., and Salt Lake City, Utah. G. L. Dillman, Safe Deposit Bldg., San Francisco, is Ch. Engr.

NEW INCORPORATIONS AND CHARTERS.

HUTCHINSON & WESTERN.—Incorporated in Minnesota to build a railroad from Hutchinson west through McLeod, Meeker and Kandiyohi Counties. Capital stock, $50,000, with the privilege of increasing it to $1,000,000. L. McGrory is Pres., and Wm. E. Ellis, Secy., both of Minneapolis, where the headquarters will be located.

KANAWHA & EASTERN.—Incorporated in West Virginia to build a railroad from Plymouth to the mines of the Alpha Coal Mining Company, 3 miles from the mouth of Iquono Creek. C. W. Smith and S. R. Ireland, Pittsburg, Pa.; P. W. Butler, Plymouth, W. Va.; L. Prichard and H. A. Robson of Charleston, W. Va., are incorporators.

TEXAS, GULF & NORTHERN.—Chartered in Texas with $500,000 capital and headquarters at Marshall, Tex., to build railroad from the gulf, near Sabine Pass, to Oklahoma City, passing through the counties of Jefferson, Orange, Hardin, Newton, Tyler, Jasper, Angelina, Harrison, Marion, Upshur, Camp Morris, Franklin, Titus, Delta, Red River and Lamar, in Texas, and through the Indian Territory and the counties of Pottawatomie and Oklahoma to Oklahoma City. The total distance in Texas is 250 miles. H. L. Hull, Fort Worth, Y. W. Lloyd and Jacob Wiseman, all of Marshall, Tex., O. J. Smart and R. W. Carraway of Logansport, La., are directors.

STREET AND ELECTRIC RAILWAYS.

BOSTON, MASS.—The car houses of the Boston Elevated Ry. Co., at Forest Hills Station, together with 50 cars, were destroyed by fire. Loss, $175,000. W. A. Bancroft is Pres.

AUBURN, N. Y.—All arrangements have been completed for building the Auburn & Ithaca Traction Co.'s proposed road, work to begin in the spring. L. W. Serrell, 29 Broadway, New York, is Engr.

MINEOLA (L. I.), N. Y.—The Central Long Island Railroad has applied for a franchise to construct and operate a trolley line from Cold Spring Harbor, L. I., through the summer resort towns on the north side to Mineola, where it will meet the eastern terminus of the line by which Mineola is connected, through Hempstead, Freeport and Queens, with this city.

BROOKLYN, N. Y.—The Brooklyn Rapid Transit Co. has announced extensive alterations for the West End Terminal at Coney Island, to be ready next summer. The plans contemplate the purchase of a large tract of ground to the north of present terminal and the building of a system of sidings that will permit of the handling of immense crowds expected. The company intends to make the enlarged terminal the principal one at the resort, and accommodations for the handling of 100,000 passengers an hour will be provided.

PITTSBURG, PA.—Formal application for charter of the Peoples Traction Co., of Pittsburg, has been made at Harrisburg. The matter is now in the hands of Governor Pennypacker for action. The application for this charter was made by Philadelphia Company interests, with C. S. Mitchell, C. L. Braun, W. B. Carson and others represented. It is understood the company proposes to take over various power houses and power equipment and operate them under a separate management.

HAGERSTOWN, MD.—W. A. Morgart and De Warren H. Reynolds, of Cumberland, who are at the head of company that expects to build an electric railway from Hagerstown to Waynesboro, are said to have made arrangements for beginning work on the road at once. The right of way has all been secured. The company estimates that the road, which will be 12 miles long, will cost about $240,000.

WASHINGTON, D. C.—Two ordinances have been introduced in City Council providing for the extension of lines of the United Railways & Electric Co. In one the company seeks to lay double tracks on Aisquith St., thence out Federal St. to eastern city limits. In the other the company asks permission to lay double tracks on Callow Ave. from North Ave. to Druid Hill Park. Referred to Committee on City Passenger Railways.

AMERICUS, GA.—The city is to have an electric railway. It will probably be constructed by a Rhode Island company. The Mayor can inform.

SAVANNAH, GA.—The Savannah Electric Co. will make improvements to its railway system aggregating over $100,000. Repairs will be made, a number of new cars purchased, new rails will be laid and in the lighting department many extensions of lines will be necessary and a great deal of wire and many meters will have to be purchased. R. L. Nash is Mgr.

MONROE, LA.—The Mayor has been authorized to secure the service of an engineer to prepare plans and specifications for construction of an electric railway here. The plan is for the municipality to build and operate the line.

JACKSON, MISS.—A stock company is being organized here for the purpose of building an electric line between northern and southern suburbs.

LYNCHBURG, TENN.—Chas. E. Meyer, of Tullahoma, representing Chicago capitalists, has submitted a proposition to the people of Lynchburg and Moore County to the effect that he will build and equip an electric freight and passenger railway from Tullahoma to Lynchburg if they will subscribe about $50,000 to the construction and equipment of the road. The distance is 12 to 14 miles. Est. cost, $200,000.

SPARTA, O.—A preliminary survey is being made for the Delaware & Mt. Vernon Interurban Railway, which is to be 33 miles long, passing through the following towns: Green Valley, Sparta, Peerless, Olive Green, West Liberty, Fargo, Bloomfield and Eden. Right of way is partly secured, and local people will subscribe about 10 to 25 per cent. of necessary capital. Outside capital will be needed. Contracts will be let in the spring. E. G. Coe is Pres. R. S. Blinn, City, is Engr.

ALEXANDRIA, IND.—The City Council has granted a 50-year franchise to the Indianapolis, Hartford City & Celina Traction Co. The line must be completed within one year. J. P. McGeath, Hartford City, is interested.

VINCENNES, IND.—The ordinance granting a franchise to the Vincennes, West Baden & Louisville Traction Co. has been passed by council over mayor's veto.

INDIANAPOLIS, IND.—It is announced that plans have been completed and most of right of way secured for the Indianapolis & Southwestern Co.'s road from Toledo, O., to Indianapolis via Muncie.

MUNCIE, IND.—The preliminary survey for Northwestern Ohio Traction Co.'s proposed line from Celina, O., to Muncie has been completed. The road will connect Muncie, Portland, Redkey, Dunkirk, Albany, Ind., and Celina, O., where it will connect with the company's line to Lima, Wapakoneta, and intermediate stations.

QUINCY, ILL.—The franchise ordinance authorizing the use of streets in Quincy to the Illinois & Missouri Railroad Co. for railway purposes and fixing the rights, obligations and duties of the parties thereto, has been filed for record. This is for the building of an electric railroad between Hannibal and Quincy. Before commencing construction the company is required to file an approved bond of $10,000 contingent on the faithful performance of the agreement. The railroad will enter Quincy on Second St. and will be granted privileges in the business center.

ANNA, ILL.—A franchise has been granted to the Union County Traction Co. by the city. Work will commence soon on an electric railway connecting Anna and Jonesboro. The construction of an electric light plant to supply this city and Murphysboro will also begin at once.

IOWA CITY, IA.—The Iowa & Davenport Interurban Railroad Co. filed articles of incorporation, providing for the construction of an electric interurban line between Iowa City and Davenport, with Tipton as a prominent town on the line. The capital stock is $100,000, and the incorporators are: Milton Remley, formerly attorney general of Iowa; S. W. McKee, Chicago; Geo. W. Koontz; C. S. Ranck, Iowa City, and others.

CEDAR RAPIDS, IA.—The Cedar Rapids, Waterloo & Northern Ry. Co., which was organized in this city recently, has filed articles of incorporation with Secretary of State, and is now ready to do preliminary work on proposed line from Cedar Rapids to Waterloo. The authorized capital stock is $10,000. The articles of incorporation provide that the company shall have right to purchase and operate steam and electric railways, and also to construct and operate street railways. The incorporators are undecided yet whether steam or electricity will be used as motive power on the line between Waterloo and Cedar Rapids. Survey of the line has been partially completed and some of right of way has been contracted for. It is the intention of the officials to get everything ready for construction work next spring. The officers and incorporators are: L. M. Rupert, president; Thomas A. Berkebile, vice-president; E. A. Crocker, secretary and treasurer, all of Cedar Rapids.

ST. PAUL, MINN.—Articles of incorporation have been filed with the state by the Mille Lacs & Minneapolis Ry. Co. The proposition is to build a trolley line from the lake to Minneapolis, a distance of 80 miles. The capital stock is $150,000. C. S. Kathan, of Mora, is Pres., C. H. Warner, of St. Paul, is Secy. and Treas.

MINNEAPOLIS, MINN.—Articles of incorporation have been filed by the Hutchinson & Western Ry. Co. The company is organized for the purpose of constructing a railway from Hutchinson westerly through McLeod, Meeker and Kandiyohi Counties, and starts with a capital stock of $50,000, with the privilege of increasing it to $1,000,000. It has the right to use either steam, gasolene or electricity as motive power. The officers are: L. McGrory, president; Wm. E. Ellis, vice-president; Cyrus A. White, secretary. The headquarters of the road are to be in this city.

SILOAM SPRINGS, ARK.—The Siloam Springs Electric Railroad, Power & Improvement Co. has been organized at Siloam Springs with a capital of $500,000.

SEDALIA, MO.—The Sedalia Transit Co. has been organized for the purpose of constructing and operating a street railway here. The capital stock is $60,000. H. S. Rumsey and Jos. Clark of St. Louis and L. P. Andrews, W. H. Powell and G. M. Moran are the directors.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

DENVER, COLO.—It is reported that the Denver City Tramway Co. is planning the construction of lines southward from this city, for which surveys were made some time ago. C. A. Trease is Ch. Engr.

DENVER, COLO.—Arrangements have been completed for building of an electric line from Greeley to Denver. The line is being built by Carmichael Investment Co. Work will begin at once.

DENVER, COLO.—The statement is made that the Denver-Boulder Interurban Ry. Co. has floated $1,000,000 of bonds, to secure the construction of its proposed electric railway system. J. R. McKinnie, 302 Boston Bldg., Denver, is Pres.

LIGHT, HEAT AND POWER PLANTS.

DAMARISCOTTA, ME.—Twin Village Water Co., of Portland, may erect a light plant here, according to report.

ONEIDA, N. Y.—Bids will be received about Jan. 1 for constructing an electric power plant at Limekiln Falls, it is stated. It would cost about $125,000. Dewitt C. Hadcock, Oneida, is Engr.

LYONS, N. Y.—Contract for power house foundations has been awarded by the Rochester, Syracuse & Eastern Ry. Co. to Frank Gilbraith, of Boston. Contracts for superstructure and equipment will be let later. C. D. Beebe, Syracuse, is Gen. Mgr. Ry. Co.

PHILADELPHIA, PA.—D. H. Burnham & Co., Archs., Railway Exchange, Chicago, Ill., are reported to be receiving bids for a detached power house, to be erected for John Wanamaker, in connection with the $5,000,000 department store now in course of construction. It will be six stories high, 92 × 66 ft., built of brick and steel, fireproof construction. Cost, probably $100,000.

WILLIAMSPORT, PA.—J. Edward Horn and W. S. Montgomery, of Phillipsburg, and E. H. Ellsworth, of Arcadia, will organize the Troy Electric Light, Gas, Heat & Power Co., that will at once begin the erection of a $12,000 plant.

PITTSBURG, PA.—R. C. Hall, who is interested in recently organized Duquesne Light Co., is quoted by "Pittsburg Press" as stating that the syndicate controlling this company will expend $2,500,000 in improving the system. Council has passed the Duquesne Light Co. ordinance.

CHAMBERSBURG, PA.—Bids are asked until Dec. 1 by Dr. John C. Greenwalt, Chn. Com., 58 South Second St., for sale or lease of municipal electric light plant, consisting of the power house, necessary machinery and pole lines, also all lights and appliances, we are informed. A. M. Stager is Pres. of Council.

DOVER, DEL.—The Popocatepetl Co. has been chartered with a capital stock of $5,000,000 to carry on the business of mining of all kinds, gas, electric light and steam heating plants. The incorporators are D. Henry Lang, of Jersey City; Joseph W. Halsey, of Passaic, N. J., and Henry L. VanSykel, of Brooklyn, N. Y.

WILMINGTON, DEL.—It is reported that the Otto Gas Engine Co., of Philadelphia, Pa., has made application to Street and Sewer Department for a gas franchise. Company stated to contemplate removing its plant to Wilmington.

BALTIMORE, MD.—We are informed that plans have not been prepared yet for plant for the United Electric Light & Power Co., as noted last week. Plans probably will be made within 30 days.

RICHMOND, VA.—Bids are reported to have been received, as follows, for the construction of a 4-lift gas holder of 2,000,000 cu. ft. capacity: Stacy Mfg. Co., Cincinnati, O., $125,000; Riter-Conley Mfg. Co., Pittsburg, Pa., $170,350, and Petroleum Iron Works, Washington, Pa., $144,000. Gas holder will be erected at Oak and Monroe Sts. Sub-committee recommends that bid of Stacy Co. be accepted.

RICHMOND, VA.—William H. Thompson, Cy. Electrician, is reported to be interested in municipal electric light plant project. Council committee has matter under consideration.

MARTINSVILLE, VA.—Survey has been made for power plant to be erected six miles southeast of this city. Water power at Eggleston's ford will be developed. J. L. Saunders and Col. J. C. Bryant are reported interested.

WALHALLA, S. C.—William J. Stribling and James Thompson, of Walhalla; W. B. Frink, of New York, N. Y., and associates are the incorporators of the Oconee Water, Light & Power Co., recently incorporated with $5,000 capital. This capital has been increased to $125,000. Company will build water-works and erect plant to furnish power to cotton mills; $100,000 probably will be invested.

MONTGOMERY, ALA.—D. P. West has been granted a permit for the erection of an electric light and ice plant.

PLAQUEMINE, LA.—Victor M. Garber, of Shreveport, La., has been granted a franchise to erect an electric light and power plant. Work will begin soon.

JACKSON, MISS.—C. A. Bonds, A. C. Jones, D. H. Holder and associates have applied for franchise to construct and operate a gas plant. It is said that $200,000 will be spent in equipment and construction.

MEMPHIS, TENN.—John T. Walsh, Fire and Police Comr., has introduced ordinance in Council providing for purchase or erection of a municipal electric plant.

NEWPORT, KY.—Bids are asked by Peter J. Krebs, Cy. Clk., until 5 p. m., Dec. 1, for the franhcise, rights and privileges of lighting this city. Also to furnish heat, fuel and power by means of either gas alone, or by means of gas and hot water, or by means of gas and steam, or by means of gas, hot water and steam for a term of 20 years.

MACKINAW, ILL.—Electric light plant here was burned on Nov. 10. Loss is said to be $10,000.

CORNING, IA.—The Corning Electric Light plant will be sold to the highest bidder on Dec. 28.

WINONA, MINN.—The Minnesota Light & Power Co., that will install a lighting and power plant in Winona under the franchise recently granted to Henry M. Lamberton, will begin work at once. The company has incorporated with a capital of $75,000. Henry M. Lamberton is Pres.; Vice-Pres., Arthur Citz; Secy. and Treas., Fred. B. White.

MINNEAPOLIS, MINN.—Bids are asked until Nov. 25, we are informed, for gas and electric lighting of city streets for 1905. Also proposals for furnishing 1,000 to 2,000 gasoline lamps. L. A. Lydiard is Cy. Clk.

HUTCHINSON, KAN.—City is considering plan to own electric light plant. Local reports mention Councilman Beebe in connection with project.

TOPEKA, KAN.—Municipal electric plant is under consideration. Mayor Bergundthal is interested.

SEARCY, ARK.—City has let contract to the Black Hawk Electric Co., of Davenport, Ia., for the erection of electric light plant. Cost, $21,000.

BRINKLEY, ARK.—The Farrell Light, Heat & Water Co. has incorporated to manufacture and supply heat, light and water; $50,000 capital. J. J. Farrell is Pres. and Treas.; H. W. Boyle, Vice-Pres., and W. S. Kilpatrick, Secy. $30,000 has been subscribed.

GUTHRIE, OKLA.—The Guthrie Electric Light & Power Co. has been incorporated with $150,000 capital to succeed the local electric light and gas company. It has applied for 30-yea rfranchise, and will rebuild entire system if franchise is secured. Thos. N. Smith is reported to represent the company.

COALGATE, IND. T.—City has granted 20-year franchise to the Coalgate Co. to erect and operate electric light plant, it is reported.

PURCELL, IND. T.—Hobart Light & Power Co., of Purcell and Hobart, Okla., has been incorporated with $50,000 capital, by Dorsett Carter of Purcell, Frederick A. Gale of Chicago, Ill., and George D. Seldon, of Erie, Pa.

HARRINGTON, WASH.—H. E. Christensen, Ritzville, Wash., who has a franchise for an electric light plant, wants bids for erecting same, except the building, it is reported.

SEATTLE, WASH.—In the reorganization of the Snoqualmie Falls Power Co. under the name of the Seattle-Tacoma Power Co., noted on Nov. 3, many improvements are contemplated. N. H. Latimer, of the Dexter Horton Bank, Seattle, is Pres.; O. D. Calvin, Treas.; Thos. B. Hardin, Gen. Attorney and Secy.; W. E. Best, Auditor. It is intended to practically double the capacity of the Snoqualmie plant by installing a 5,000-KW. generator, driven by a 10,000-HP. turbine wheel if Washington State Supreme Court decides in favor of the company regarding White River power plant.

JACKSONVILLE, ORE.—It is reported that the Condor Power Co. has plans for enlargement of its plant to more than treble its present capacity. Contracts have been made for lighting Medford and probably Jacksonville. Pole lines are projected for Ashland and Grants Pass. When enlargement is completed capacity will be from 1,600 to 2,000 HP. C. R. Ray is Mgr. of Company.

UNION, ORE.—T. H. and C. H. Crawford are reported to be ready to install one of the largest power plants in eastern Oregon, that, when completed, will develop 2,500 HP:

ALAMEDA, CAL.—Bids are asked until 7.30 p. m., Nov. 21, for additional machinery for municipal lighting plant as follows: Proposition No. 1—(a) One alternating current generator having a rated capacity of 240 KW., 2-phase, 7,200 alternations, 2,300 volts, belted type, speed not to exceed 600 R. P. M., with all necessary accessories. (b) One alternating current generator having a rated capacity of from 300 to 400 KW., 2-phase, 7,200 alternations, 2,300 volts, belted type, speed not to exceed 450 R. P. M., with all necessary accessories. Alternate bids will also be received on generators of a similar size and capacity to those enumerated in Proposition 1 (a) and (b), but arranged for direct connection to generator, and to operate at a speed of 150 R. P. M. Full specifications of machinery proposed must be filed with bids, giving guarantees, temporary overload, capacity, efficiency, temperature and regulation on inductive and non-inductive load. One generator will be purchased. Proposition No. 2—(a)—One 384 indicated HP. horizontal cross or tandem compound condensing engine, arranged for belting to 240 KW., alternator specified under Proposition No. 1 ,a) (b)—One 480 indicated HP. horizontal, cross or tandem compound condensing engine arranged for belting to 300 KW., alternator specified under Proposition No. 1 (b); (c)—One 560 indicated HP. horizontal, cross or tandem compound condensing engine, arranged for belting to 350 KW. alternator specified under Proposition No. 1 (c); (d)—One 640 indicated HP. horizontal, cross or tandem compound condensing engine, arranged for belting to 400 KW. alternator specified under Proposition No. 1 (d). Proposition No. 3—(a-d)—Alternate bids will be received for engines arranged for direct connection to alternators, speed 150 R. P. M. All the above engines will conform to the following requirements: Steam pressure at throttle, 110 lbs. per sq. in. Effective vacuum in exhaust pipe close to engine 24 in.; referred to standard barometer of 30 ins. Bidders must state guaranteed steam consumption in pounds of dry steam per indicated HP. at ¼, ½, ¾, full and 1¼ load. Ratio of cylinder volumes 4 to 1, cut-off at rated capacity ¼. All foundations, piping connections and belts will be furnished by the contractor. Proposition No. 4.—One turbo-alternator to conform to the general specifications of size and capacity as given above for alternators under Proposition No. 1, and to conform to the requirements of engines, pressure, vacuum, guarantee, etc., as given under Proposition No. 4. Jos. F. Forderer, Pres. of Bd.; J. W. Gillogly, Cy. Clk.

ANAHEIM, CAL.—Bids are asked until Dec. 20 for purchase of gas pipe-line franchise. Edward B. Merritt, Cy. Clk.

MILL VALLEY, CAL.—Bids are asked by the Trustees until Dec. 20 for a franchise to erect telegraph and telephone poles and wires and electric light and power along some of the streets of Mill Valley, as applied for by the Mill Valley & Mt. Tamalpais Scenic Ry. S. H. Roberts, Town Clk.

MODESTO, CAL.—Trustees have accepted the propositions made by Frank A. Cressey and C. T. Tulloch to pump water and furnish electric lights for this city, respectively. Contracts are to go into effect Dec. 1.

SAN LEANDRO, CAL.—Mt. Diablo Light & Power Co. has been incorporated with $50,000 capital. J. W. Burge, of Haywards; C. A. Jeffrey, of Oakland, and others are incorporators.

VACAVILLE, CAL.—Trustees have adopted resolutions calling for an election for the purpose of submitting two propositions involving the bonding of the town for $65,000, $40 000 of which is to be for construction of a water and light plant.

VISALIA, CAL.—Wm. Kettner, promoter of the gas plant that is to be constructed in this city, states that work will be commenced as soon as franchise is granted. Plant, when completed, will cost about $45,000.

BRIDGES.

LUDLOW, MASS.—We are informed that the superstructure for three spans, 100 ft. each, plate girder single track railroad bridge over Chicopee River here was let by Ludlow Manufacturering Associates to the United Construction Co., of Albany, N. Y., for $21,490. The other bids received were as follows: Berlin (Conn.) Construction Co., $22,000; Eastern Bridge & Structural Co., Worcester, $22,329; Boston, (Mass.) Bridge Works, $21,995; New England Structural Co., Boston, $22,500. Mace Moulton, 150 Nassau St., New York, is Consult. Engr.

TIVERTON, R. I.—It is probable that the Rhode Island General Assembly at its coming special session will be asked to make available at last a portion of the $100,000 appropriation made at January session for the purpose of constructing a new highway bridge at Stone Bridge. Councilman C. G. Thomas, of Portsmouth, is interested.

SOUTH NORWALK, CONN.—The Selectmen intend to build a new bridge at Belle Island as soon as possible. Cost, $7,500.

CORTLANDT, N. Y.—Specifications for bridge here are on file at office of Engineering News, 220 Broadway, New York. Bids asked until Nov. 29 by Aqueduct Commission.

ETNA, PA.—Pennsylvania R. R. Co. will erect a stone and steel bridge over Pine creek here to replace present wooden bridge. W. H. Brown, Philadelphia, is Ch. Engr.

FALLSTON, PA.—A contract has been let by Pittsburg & Lake Erie railroad for a new double-track bridge, with steel girders, over county road here. The McClintic-Marshall Co. secured the contract. It will be started soon and will be completed in about three months. Cost, about $6,500.

GETTYSBURG, PA.—The contract for building a new bridge over railroad cut on Reynolds Ave. has been awarded by Battlefield Commission to Nelson & Buchanan, Chambersburg.

LYNCHBURG, PA.—The Virginia Bridge & Iron Co. has been awarded the contract for iron work for the Norfolk & Western viaduct, which will be run from Randolph St. to Nelson St. Cost, $8,000.

WILKESBARRE, PA.—The Grand Jury has appropriated $19,525 for construction of county bridges.

STONY CREEK MILLS, PA.—A petition will be presented to court for a new county bridge spanning Stony Creek near here.

READING, PA.—A petition has been presented to County Commissioners asking that a bridge be built over Wyomissing Creek, at George Ruth's mill.

LUZERNE, PA.—The Grand Jury has recommended the erection of a bridge over Abrams creek, on Swetland Lane, in Wyoming Borough.

SUNBURY, PA.—The Sunbury Bridge Co. will construct a bridge over Susquehanna River, near here.

WEST CHESTER, PA.—H. H. Archer, Gen. Mgr., West Chester Street Ry. Co., has reached an agreement with Pennsylvania Railroad Co., whereby a new bridge will be constructed over railway tracks near Caln, so that the Street Railway can obtain an entrance to Coatesville. The new structure will be in accordance with plans drawn in conjunction with wishes of P. R. R. Co., and be wide and strong enough for use of vehicles as well as street cars.

PITTSTON, PA.—The Grand Jury has recommended the building of 39 new county bridges. Nearly $20,000 has been appropriated for that purpose.

BLAIRSVILLE, PA.—Michael Bennett of Indiana, Pa., has been awarded the contract at $1,578, for erection of stone work for new iron bridge to be erected across Sulphur Run at this place.

SCRANTON, PA.—A number of petitions for bridges have been received in court. All of the applications were referred to Grand Jury.

TOWSON, MD.—Nelson & Buchanan Co., Chambersburg, Pa., were awarded the contract for building Sweetzer bridge across Patapsco River for $7,850.

WASHINGTON, D. C.—Commissioner Biddle has approved the recommendation of C. B. Hunt, Engr. of Highways, that a permit be granted Philadelphia, Baltimore & Washington R. R. Co. to construct a bridge across Water St., S. W. Jas. Buckelew, Wilmington, Del., is Princ. Asst. Engr.

FREDERICKSBURG, VA.—A steel bridge is to be constructed over Rapidan River, at a cost of from $7,000 to $9,000. A. T. Embrey can inform.

STATENVILLE, GA.—We are informed that The Geo. E. King Bridge Co., of Atlanta, was awarded the contract for constructing a steel bridge over Alapalia River for $2,847.

JACKSON, MISS.—A stock company is being organized here for the purpose of building a street-car system. It is reported that a steel bridge will be erected on Rankin St. by this company. No names given out as yet.

DAYTON, O.—Board Public Service has purchased land for approach, preparatory to construction of bridge between Riverdale and North Dayton.

AKRON, O.—We are informed that bids will be received until Nov. 30 for constructing Mill St. viaduct, to consist of one 162-ft. span. Est. cost $50,000. Substructure to consist of about 6,000 cu. yds. concrete with about 12,000 cu. yds. filling. Osborn Engineering Co., Cleveland, O., is Designing Engr. J. W. Payne is Cy. Engr.

ZANESVILLE, O.—County Commissioners awarded to Union Machine Co., City, the contract for building new bridge at South Zanesville for $4,813.

CHARDON, O.—The Baltimore & Ohio R. R. Co. will shortly build a new overhead bridge in Concord. D. Lee, of Zanesville, is Consult. Engr.

RICHMOND, IND.—Contract for constructing bridge at Dublin was awarded to Pan-American Bridge Co. for $1,549 and to New Castle (Ind.) Bridge Co. for erecting bridge in Harrison township, for $4,945.

GRAND HAVEN, MICH.—Board of Supervisors has granted a franchise to the Riverside Electric Ry. Co. to run its road through this county. The company is given the privilege to erect a bridge across Grand River.

ROCKFORD, ILL.—Board of Supervisors will build a bridge in South Beloit over Turtle Creek, at Park Ave. The bridge will be 150 ft. long and cost $5,000.

CLEVELAND, WIS.—The towns of Cleveland and Arthur have voted to build a bridge across Chippewa River. Bridge will cost $10,000, one half of which is to be raised by two towns and the other by county.

SIOUX CITY, IA.—The State Railroad Commission has received application from Sioux City requesting that it approve plans for a viaduct over railroads on Wall St. and then compel the railroads to put it in.

ALBUQUERQUE, N. MEX.—The Albuquerque Traction Co. has been granted a permit by City Council to construct a viaduct.

SPOKANE, WASH.—It is reported that bids will be received until Nov. 25 by County Commissioners for constructing bridge No. 62 over Little Spokane River on mill road.

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PORTLAND, ORE.—Arrangements are b[illegible] made by Portland Ry. Co. to build a trestle over r[illegible] bottom on Oregon side, at cost of $100,000. Work [illegible] be commenced next year. F. I. Fuller is Gen. M[illegible]

VALLEJO, CAL.—The City Engineer wa[illegible] by Board Public Works to prepare estimates [illegible] steel bridge over railroad on Georgia St.

MOSCOW, IDAHO.—Bids are asked by [illegible] Commissioners until Dec. 3 for construction of a [illegible] across Cow creek on Walnut St., Genesee, Latah Co[illegible] Axel P. Ramstedt, County Clk.

FREDERICTON, N. B.—It is stated that [illegible] will be received until Nov. 28 by C. H. La Billois, Co[illegible]oner Public Works, for rebuilding Louison Brook [illegible]ge in Restigouche County.

BUILDINGS.

BANGOR, ME.—Maine Central Ry. Co. wil[illegible] a $350,000 station at foot of Exchange St. Work [illegible] next spring. It is said that several thousand [illegible] of solid ledge will have to be removed and that sev[illegible] thousand piles will be driven to provide the site. [illegible] will be built into the Penobscot River. P. N. [illegible]son, Brunswick, Me., is Supt. Bldgs.

SALEM, MASS.—Architects have been invited [illegible] High School Commissioner to submit plans until De[illegible] for a $175,000 building to accommodate 800 pupils. [illegible] specifications provide for exterior walls of red or da[illegible]rick. Prizes aggregating $1,400 are offered for the be[illegible]ans. Professor Chandler, of Boston, will pass upo[illegible]ans. School building will be located at Summer and B[illegible] Sts.

BROOKLYN, N. Y.—Kirby, Petit & Green, 2[illegible] West 34th St. New York, will prepare plans, it is said, for a theater for the Hanover Theater Co., 22 Court St., Brooklyn; cost, probably, $200,000.

GOVERNOR'S ISLAND, N. Y.—Contracts for [illegible] two single sets of officer's quarters at Governor's Island have been awarded as follows: Henry Spruck & Son, Stapleton, S. I., N. Y., constructing commanding general's quarters and field officers' quarters, $27,500; New York Steamfitting Co., 137 Elm St., New York City, heating commanding general's quarters, $959; heating field officers' quarters, $840; Le Baron B. Johnson, West New Brighton, S. I., N. Y., electric wiring commanding general's quarters, $367; electric wiring field officers' quarters, $299. All bids for plumbing both quarters rejected. Wm. E. Horton, Q. M.

NEW YORK, N. Y.—Bids are asked by N. J. Hayes, Fire Comr., until Nov. 29 for erecting building for an engine company on 138th St., west of Cypress Ave., Boro. Bronx. Bids will be received also at that time for plumbing, gas and electric systems for this building.

Bids are asked until Nov. 28 for heating and ventilating work for College of the City of New York buildings, at St. Nicholas Terrace, 140th St., Amsterdam Ave. and 138th St. E. F. Shepard, Chn. Bd. Trustees. Charles Putzel, Secy.

NEW YORK, N. Y.—Bids are asked until Dec. 8 for installation of steam power heating and ventilating apparatus in New York Public Library, Astor, Lenox and Tilden Foundations, Fifth Ave., 40th to 42d St. John J. Pallas, Pres. Park Comrs.

Bids are asked until Nov. 28 by C. B. J. Snyder, Supt. School Bldgs., Bd. Education, for sanitary work and gasfitting of additions and alterations in School 132, Conselyea St. and Manhattan Ave., Boro. Brooklyn.

Bids are asked also by C. B. J. Snyder until Nov. 21 for installing apparatus, etc., in two school buildings.

Bids are asked until Nov. 22 by Louis F. Haffen, Pres. Boro. of Bronx, for construction of foundation walls for Bronx Court House, at 161st St., Third and Brooks Aves.

SYRACUSE, N. Y.—The Cleveland Construction Co. will have plans and specifications prepared for a pavilion building for summer resort. D. E. Balsley is Secy.

NEWARK (HARRISON STATION), N. J.—Harrison Board of Education has made arrangements to hold another election to vote upon $45,000 bonds for a school. Bonds recently voted have been declared illegal.

PHILADELPHIA, PA.—Brockie & Hastings, architects, Philadelphia, have prepared plans for a 2-story and basement High School to be erected in Cheltenham township. Bids will be asked for both brick and stone construction.

McKim, Mead & White, Archs., 160 Fifth Ave., New York, are reported to have prepared preliminary drawings of the building to be erected at 22d and Ludlow Sts. for the College of Physicians. The matter of construction will be formally settled at a meeting to be held the first week in December. Previously mentioned.

SCRANTON, PA.—J. A. Dempwolf, Arch., has completed plans for extensive alterations and additions to the County Court House at Scranton. The old building will be remodeled, and a large addition, of steel and stone, erected. It will be made thoroughly fireproof. Cost, estimated at $450,000.

McKEESPORT, PA.—Masonic Temple will be erected at Sixth Ave. and Walnut St. Plans have been drawn. Construction will be started in spring of 1906. Cost, $200,000. Previously mentioned.

PITTSBURG, PA.—The Oakland Regular Baptist Church, Rev. Alonzo R. Stark, pastor, has purchased site and will erect new church building at McKee Pl. and Louisa St. Cost, estimated at $50,000.

Chas. Bickel, Arch., 524 Penn Ave., City, is preparing plans for plant of Morse Iron Works, Erie, Pa. Reported that work of construction will be started early in 1906. Cost, $200,000.

Palmer & Hornbostel, represented here by H. F. Hornbostel, who have been chosen architects for the Carnegie Polytechnic Schools, as noted last week, have taken offices at 709 Lewis Building. Contract for the buildings will not be let as a whole, but, it is reported, each building will be bid on separately. Board of Trustees of Carnegie Institute will let all contracts after the bids have been approved by the architects and by Arthur A. Hamerschlag, Director of the schools. Bids on the first building probably will be received next month.

Geo. H. Soffel Co., 425 Second Ave., City, was awarded plumbing contract for 38 new warehouses of Pittsburg Terminal Warehouse & Transfer Co., on the south side. Contract approximates $47,000.

WILMINGTON, DEL.—Trustees of Delaware Hospital for Insane will petition Legislature for $40,000 appropriation for a building for colored insane.

ANNAPOLIS, MD.—Navy Department, Washington, D. C., has rejected all bids for a hospital at the U. S. Naval Academy, Annapolis. Ernest Flagg, Arch., 35 Wall St., New York, will revise the plans and new bids will be invited. Chas. H. Darling is Act. Secy., Washington.

BALTIMORE, MD.—Archer & Allen, Archs., Central Savings Bank Bldg., have completed plans for Walters' bathhouse No. 3, to be built on Argyle Ave., near Biddle St. It will cost about $50,000; one story, 45 x 70 ft., stone, concrete, brick and steel.

The National Bank of Baltimore, Charles and Pleasant

Sts., has awarded contract to Henry Smith & Sons Co., 110 South Register St., for constructing a bank building at Baltimore and St. Paul Sts. Baldwin & Pennington, Archs., 311 North Charles St. Cost, $135,000.

Municipal Board of Estimates has appropriated $120,000 with which to begin work on the new Eastern Female High School. E. D. Preston is Building Inspector.

Geo. Bunnecke & Sons have contract to erect a 6-story office building at German St. and Wine Alley for Hyland P. Stewart, trustee. It will cost $50,000. Haskell & Jones are the Archs.

WASHINGTON, D. C.—Bids are reported to have been received as follows on Nov. 10 by B. T. Galloway, Chn. Bldg. Com., Dept. Agriculture, for the general construction (except heating apparatus, elevators, electric wiring and conduit systems) of two laboratory buildings for the Dept. of Agriculture as advertised for in Engineering News.

Roderick & Wind Engineering and Construction Co., St. Louis, Mo.: A, $1,333,995; B, $1,392,000; C, $1,368,000; D, $1,296,998; E, $1,314,998; F, $1,428,413; time, 24 months.

Thompson-Starritt Co., 49 Wall St., New York City, A, $1,424,000; B, $1,380,000; C, $1,890,000; D, $1,290,000; E, $1,360,000; time for A and D 22 months, B 24 months, C 26 months and E 28 months.

W. E. Spear, 1417 F St., N. W., Washington, D. C., A, $1,316,000; B, $1,330,000; C, $1,331,000; D, $1,153,000; E, $1,213,000; F, $1,167,000; time, 24 months.

Thomas Reilly, Philadelphia, Pa., A, $1,278,678; B, $1,316,434; C, $1,356,784; D, $1,222,484; E, $1,249,484; F, $1,256,784; time for A and D 23 months, B, C, E and F 24 months.

Richard E. Heningham, 4 Court Sq., Brooklyn, N. Y., A, $1,326,618; B, $1,340,793; C, $1,341,528; D, $1,233,878; E, $1,330,167; F, $1,384,465; G, $1,333,618; time under proposition D 24 months, all others 30 months.

Horton & Hemingway, Boston, Mass., A, $1,382,029; B, $1,314,879; C, $1,323,400; D, $1,356,621; E, $1,257,435; F, $1,386,330; time for A, D and F 28 months, B and C 24 months and E 26 months.

John L. Parsons, Washington, D. C., A, $1,269,335; B, $1,314,700; C, $1,366,335; D, $1,198,535; E, $1,327,435; F, $1,273,233; time for A, B and C 24 months, D, E and F 26 months.

Andrew Doll & Co., Cleveland, O., A, $1,476,000; B, $1,491,000; C, $1,491,000; D, $1,417,000; E, $1,437,000; F, $1,440,000; time for A, B and C 40 months, D, E and F 30 months.

John Peirce, 277 Broadway, New York City, A, $1,299,000; B, $1,384,000; C, $1,545,700; D, $1,279,000; E, $1,279,000; F, $1,289,000; time for A, B and C 30 months, D and E 27 months and F 24 months.

John Gill & Sons, Cuyahoga Bldg., Cleveland, O., A, $1,275,000; B, $1,370,000; C, $1,499,000; D, $1,235,000; E, $1,315,000; F, $1,265,000; time for A, B and C 32 months, D, E and F 30 months.

Henry Smith & Sons Co., Baltimore, Md., A, $1,295,700; B, $1,288,800; C, $1,290,800; D, $1,220,000; E, $1,330,000; F, $1,295,000; time 24 months.

Henderson Co., Ltd., Philadelphia, Pa., A, $1,307,000; B, $1,357,000; C, $1,319,000; D, $1,256,000; E, $1,287,000; F, $1,307,000; time for proposition F 31 months, all others 37 months.

Henry Shank Co., Erie, Pa., A, $1,371,376; B, $1,374,376; C, $1,375,576; D, $1,333,416; E, $1,362,606; F, $1,399,606; G, $1,396,000; time 30 months for all propositions.

Richardson & Burgess, Washington, D. C., A, $1,224,638; B, $1,307,004; C, $1,528,976; D, $1,211,546; E, $1,212,274; F, $1,282,383; time for A, B and F 27 months, for C, D and E 29 months.

John C. Robinson, 113 Adams St., Chicago, Ill., A, $1,330,589; time 30 months.

Cramp & Co., 1421 Filbert St., Philadelphia, Pa., A, $1,362,000; B, $1,403,000; C, $1,404,000; D, $1,327,000; E, $1,348,000; F, $1,363,000; time, 36 months.

Charles McCaul Co., Philadelphia, Pa., A, $1,282,605; B, $1,309,605; D, $1,242,605; time for A and B 30 months, and for D 27 months.

John Steward & Co., 135 Broadway, New York City, A, $1,448,887; B, $1,474,887; C, $1,487,887; D, $1,381,887; E, $1,407,887; F, $1,447,387; time for A, B and C 27 months, for D, E and F 33 months.

Ambrose B. Stannard, St. James Bldg., New York City, A, $1,197,000; B, $1,206,000; C, $1,273,000; D, $1,280,000; E, $1,246,000; F, $1,288,000; time in either case 30 months.

P. J. Carlin Construction Co., 1 Madison Ave., New York City, A, $1,398,900; B, $1,422,270; C, $1,612,000; D, $1,420,000; E, $1,400,000; F, $1,460,000; G, $1,432,000; H, $1,670,000; time for A, B and C 24 months, all others 30 months. Plans and specifications were prepared by Rankin, Kellogg & Crane, Archs., 1012 Walnut St., Philadelphia.

WASHINGTON, D. C.—Building permit has been granted to Daughters of American Revolution for a $350,000 building. E. P. Casey is Arch. Previously noted.

District Commissioners will petition Congress for an additional appropriation of $500,000 in order to construct proposed municipal building of stone instead of brick with stone trimmings. This would bring total cost to $2,500,000. Capt. Chester A. Harding, Corps of Engrs., is in charge of this project.

WASHINGTON, D. C.—The following bids were received for furnishing cut-stone for proposed municipal building, as advertised for in Engineering News: Woodbury Granite Co., Hardwick, Vt., for furnishing granite for superstructure similar to that used in the Sherman statue here and in the Pennsylvania State Capitol Building at Harrisburg, $648,685; Hardwick white granite, $872,500. Ambrose B. Stannard, St. James Bldg., New York City, for furnishing base stone, West Chelmsford, Mass., granite, $76,300; Dumiston granite, $84,500; Mt. Airy granite, $89,000; Maryland granite, $92,900; Milford granite, $96,400; Milford pink, $97,000; for superstructure, Dumiston granite, $580,000; Vermont marble, $591,000; New York, imperial marble, $875,000. Blue Ridge Marble Co., Nelson, Ga., for entire building, Cherokee marble, $675,000. Wm. Bradley & Son, 277 Broadway, New York City, Mt. Waldo or Woodstock granite base and Indiana limestone superstructure, $427,575. Furst & Fanning, Chicago, West Chelmsford granite base and Bedford, Ind., limestone superstructure, $519,250. B. A. & G. N. Williams, 4 East 42d St., New York City, Blue Hill granite base and Georgia marble superstructure, $767,200; Blue Hill base and South Dover marble superstructure, $776,900; add $20,865 if Waldo granite base be used. George Dugan, New York City, Maryland granite base and Indiana limestone superstructure, $506,720; add $7,000 if Milford granite is used for base or $2,000 if Woodstock granite is used for base.

FORT MYERS, VA.—Bids are asked until 10 a. m., Nov. 28, by Capt. O. W. Bell, Q. M., for completion of annex and a few repairs and alterations to administration building at post hospital.

SAVANNAH, GA.—Bids were received as follows for barrack buildings, kitchen and lavatory at Fort Screven: Thomas C. Dixon, Savannah, $32,230; Frank Woollard, Savannah, $32,650; Simons-Mayrant Co., Charleston, S. C., $32,655. For plumbing these buildings: Barfield, for Dixon & Woollard, $4,203; Simons-Mayrant Co., $3,250. For heating—Tompkins, $2,525; Simons-Mayrant Co., $3,000. For electric wiring—Thomas C. Dixon, $726; Walker, $741; Simons-Mayrant Co., $918. Joseph T. Davidson is Q. M.

ATLANTIC, GA.—Georgia Ry. & Electric Co. will erect a 3-story and basement building at Marietta and Fairle Sts. Cost, $90,000. Morgan & Dillon are Archs. William Bensel & Co. have contract to erect it.

DUBLIN, GA.—Bids are asked by J. H. Witherington, Secy., until Nov. 23 for the erection of Baptist church building. For further information, plans, etc., address J. H. Witherington.

JACKSONVILLE, FLA.—W. P. Richardson has contract for 7-story Consolidated Grocery Co. building, 70 × 210 ft. Cost, $150,000. In addition there will be built also a 3-story brick warehouse, 70 × 90 ft., costing $80,000, and wharf 90 ft. wide and extending 400 ft. into the St. Johns River, that will cost $50,000. Rutledge Holmes is Arch.

BIRMINGHAM, ALA.—Joint Committee of the Board of Education and City Council has accepted plans submitted by Breeding & Whilden, of Birmingham, for proposed High School. Plans provide for a 4-story structure of pressed brick and stone. Appropriation is $125,000. Dr. J. H. Phillips is School Supt. Full particulars given on Sept. 15.

NEW ORLEANS, LA.—Bids are asked until Nov. 30 by F. L. Denny, Q. M., U. S. Marine Corps, for construction of Marine barracks and officers' quarters at Naval Station here. Rathbone E. De Buys, 421 Carondelet St., is Arch.

COLUMBIA, MISS.—L. C. Wellborn, Chancery Clk., informs us that proposition to issue bonds for court house was defeated at recent election. Noted last week.

SARDIS, MISS.—Court house was burned recently. Building was erected in 1872 at cost of $52,000. It was insured for $9,000.

YAZOO CITY, MISS.—E. J. Poursine, City Clk., will receive bids until Dec. 12 for $100,000 of 5% municipal building and improvement bonds.

KNOXVILLE, TENN.—Bids are asked until Nov. 21 for the erection of a hospital building. W. S. Nash, M. D., Ch. Build. Com., 611 Walnut St.

CHATTANOOGA, TENN.—Bids are asked until Nov. 23 for furnishing and installing gas fixtures in all buildings at new post at Chickamauga Park, Ga. Capt. H. W. French, Q. M., U. S. A. (Advertised, Engineering News.)

DELAWARE, O.—Bids are asked by T. F. Dye, Secy. Board of Trustees Girls' Industrial Home, care Frank L. Packard, Arch., Columbus, O., until 12 noon, Dec. 3, to erect a central dining and assembly hall at Delaware.

COLUMBUS, O.—The Euclid-Genesee Realty Co. has increased capital from $45,000 to $125,000 to build an apartment house. It will be entirely of concrete and steel. C. E. Schmeck is Secy. of the Co.

TOLEDO, O.—Plans have been prepared by Langdon & Hohly, Archs., for remodeling the Valentine building. It will be converted into a 125-room hotel for a company being organized by Wm. H. Patterson. Cost will be about $80,000. Geo. H. Ketcham is owner of building.

Spitzer-Macomber Co. has purchased 56 lots on Linwood Ave. that will be improved with houses.

George G. Metzger is having plans prepared for two flat buildings at Linwood and Woodruff Ave. Cost, $75,000.

INDIANAPOLIS, IND.—Contracts for the new Indianapolis Orphan Asylum to be built on East Washington St., will be called for soon by the orphan asylum board. It will be built on the cottage plan. There will be eight 2-story buildings, including an administration building, school, hospital, dining room and chapel, dormitories, laundry, heating plant and nursery. The administration building will occupy the center of the group. First story of buildings will be of brick and the second half-timbered. Estimated cost, $50,000. Herbert Foltz and Wilson B. Parker, 28-31 Union Trust Building, Archs.

DETROIT, MICH.—It is reported that Geo. D. Mason, Arch., is preparing plans and will soon receive bids for an addition to Masonic Temple. It would be seven stories, 50 × 130 ft., with press brick and Bedford limestone, composition roof, fireproofing, gymnasium, steam heating, iron and steel work, electric light, shower baths, bath tubs, etc., and probably would cost $100,000. Frank E. Fisher is Chn. Bldg. Com., 183 Larned St., W.

CHICAGO, ILL.—Frost & Granger, Archs., 184 La Salle St., are reported to be receiving bids for a bank building to be erected at La Salle and Monroe Sts., for the Northern Trust Co., of 219 La Salle St. To be three stories and attic, 190 × 75 ft., built of terra cotta and stone, fireproof construction, with steam heat, iron and steel work, electric light fixtures, etc. Approximate cost, $1,000,000. Shipley, Rutan & Coolidge are Archs. E. C. & R. M. Shankland are Engrs.-in-Charge.

Bids are asked by Board of Education, 730 Tribune Bldg., until noon, Nov. 18, for the following school works: Jefferson Park School, West Argyle and North 52d Ave.: Masonry, cut stone, sheet metal, composition roofing, structural iron, iron stairs, window guards, carpentry, hardware, painting and finishing, glass and glazing, fireproofing, lathing and plastering, concrete floors, asphalt floors, etc., tile floors, telephones and bells, window shades, steam heating, heat regulation, ventilation, plumbing and gas fitting, sewerage, electrical work. Lake High School, Union Ave. and West 47th Pl.: Iron stairs, steel ceilings, hardware, painting and finishing, glass and glazing, lathing and plastering, concrete floors, asphalt floors, etc., telephones and bells, window shades, heat regulation, plumbing and gas fitting, electrical work, dynamos, engines. Medill High School: Yard improvements, masonry, etc., iron fences. Shields branch No. 1: Iron pans, etc., for furnaces. Monroe School: Fireproofing. Plans, etc., prepared by R. B. Williamson, act.-Arch., and T. J. Waters, Ch. Engr., 714 Tribune Bldg.

Bids are asked until Dec. 10 by Rev. Paul J. Foerster, pastor, 152 Newberry Ave., for erecting the Second German Evangelical Zion Church. Cost, $35,000. Theo. Duessing, 1293 West 22d St., is Arch.

Pond & Pond, Archs., Steinway Hall, are reported to be receiving bids on masonry, steel and fireproofing for building to be erected at 94 Washington St., for Chicago Telephone Co. Six stories, with walls heavy enough to carry 10 more stories of fireproof construction, brick and steel, steam heat, etc. Total cost, $300,000.

CHICAGO, ILL.—Edwin G. Cooley, Gen. Supt., Bd. of Education, has recommended that 20 portable schools and a new manual training high school be erected at cost of $350,000.

New Illinois Athletic Club, that will be organized soon, will erect a $500,000 clubhouse on Michigan Ave., between Adams and Monroe Sts. Wm. Hale Thompson is Pres. Clubhouse will be 12 stories high, fireproof throughout; plan also includes a large natatorium.

WATERTOWN, WIS.—Lutheran General Synod has decided to build a $50,000 building at Northwestern University located here.

FERGUS FALLS, MINN.—City has voted to issue $45,000 of bonds for new school building.

STILLWATER, MINN.—F. W. Kinney, Arch., Minneapolis, has prepared plans, it is reported, for a 2-story bank building, 50 × 70 ft., for the First National Bank of Stillwater. Cost, $38,000.

WABASHA, MINN.—F. Heer & Son, Dubuque, Ia., Archs., have plans for a 2-story Catholic Orphans' Home, 52 × 128 ft. It probably will be of brick and stone, with iron and steel work, slate roof, electric light, water closet fixtures and steam heat. Cost, about $30,000. Foundation is now being built. Construction of building will begin next spring. Rev. Max Wurst is Rector.

LAWRENCE, KAN.—Bids were received as follows on Nov. 7 for construction of a postoffice at this place: Tom Lovell, Denton, Tex., $59,654; time as specified. Latimer & Benning, Kansas City, Mo., $56,621; time, Nov. 30, 1905. J. B. Betts, Topeka, Kan., $52,552; time, 12 months. Deiter & Wenzel, Joplin, Mo., $52,131.20; time, 15 months. J. H. Wiese, South Omaha, Neb., $53,400; time, Nov. 30, 1905. George E. Hopper, Arkansas City, Kan., $50,000; time, as specified. F. L. Stevenson Contract Co., Dallas, Tex., $62,500; time as specified. F. M. Garthwait, Chicago, Ill., $53,860; time, Dec. 15, 1905; Cuthwert & Sargent, Topeka, Kan., $55,355; time, Jan. 1, 1906.

LINCOLN, NEB.—Bids are asked by J. S. Dales, Secy., 101 Central Bldg., State University, until 4 p. m., Nov. 26, for the construction of an administration building. Plans, etc., are on file at office of superintendent of construction.

CHEYENNE, WYO.—Bids are asked until Dec. 14 for construction, plumbing, steam heating and electric wiring of 16 buildings at Fort D. A. Russell, Wyo. Capt. W. S. Scott, Q. M., U. S. A. (Advertised, Engineering News).

CHEYENNE, WYO.—Bids are asked until Dec. 14 for furnishing and installing electric-light fixtures in certain buildings and connecting wiring of certain buildings to the post-lighting system at Fort D. A. Russell, Wyo., Capt. W. S. Scott, Q. M., U. S. A. (Advertised, Engineering News).

HARRISON, ARK.—Bids are asked by James Knox Taylor, Supervising Arch., Washington, D. C., until Dec. 20 for low pressure steam heating apparatus complete in place, for U. S. Postoffice and Courthouse at Harrison. (Advertised, Engineering News.)

DALLAS, TEX.—Theodore Beilharz has been awarded contract for 5-story building to be erected for G. H. Schoellkopf Saddlery Co. It will cost $60,000. Wm. Martens is the Arch.

FORT WORTH, TEX.—Thomas B. Ellison has let contract for a 5-story business building to be erected on Throckmorton St. Cost, $65,000.

PUEBLO, COLO.—Bids will be received by Robt. S. Roeschlaub & Son, 52 King Block, Denver, for a high school building to be erected in this city.

SEATTLE, WASH.—Bebb & Mendel, Archs., have plans for an 8-story brick block on First Ave., S. and King St., for the Schwabacher Hardware Co. It will cost $200,000.

G. A. Johnson & Son, 153 La Salle St., Chicago, has been awarded the general contract for union passenger station. They will do masonry, carpentry and painting by day work. Three stories, 135 × 330 ft., tower 240 ft. high, built of marble and terra cotta. Cost, $450,000. General contractors are reported to be taking figures on all lines excepting masonry, carpentry and painting. Reed & Stein, St. Paul, are Archs.

SEATTLE, WASH.—A $300,000 building will be erected by physicians in this city. $100,000 has been subscribed.

WALLA WALLA, WASH.—Bids are asked until Nov. 30, 10 a. m., for construction of two double sets of brick barracks at Fort Walla Walla. Noble H. Creager, Q. M.

PORTLAND, ORE.—Bids are asked until Dec. 13 for installing low-pressure steam heating apparatus complete in place in Post Office and Court House here. James Knox Taylor, Supervising Arch, Treasury Dept., Washington, D. C.

ST. JOHNS, ORE.—Portland report states that R. E. Nippert, representing an eastern educator, has arranged to erect a polytechnic school at this place. W. W. Goodrich, of Portland, will prepare plans for a $250,000 building.

AVALON, CAL.—Eastern syndicate will build a $45,000 clubhouse at Avalon, Catalina Island. A. M. Edelman is Arch.

LOS ANGELES, CAL.—Bids are asked by Los Angeles Board of Supervisors until Dec. 12 for complete installation of heating and ventilating plant in Insane Ward, County Hospital. Hudson & Munsell are Archs. C. T. Keyes, Clk.

Two stories are to be added to the Angeles Hotel at Spring and Fourth Sts. John Parkinson, Arch., is drawing the plans for the improvement, which will cost $100,000.

SACRAMENTO, CAL.—Bids are asked until 10 a. m., Nov. 22, for erection of three cottages and hospital building at Eldridge for California Home for Feeble-Minded. Bliss & Favelle, Crocker Bldg., San Francisco, Cal., are Archs. Separate bids and contracts to be made as follows: (1) For masonry work, including all brick, stone, terra cotta and concrete work and all necessary excavations and filling; (2) for iron work; (3) for carpenter, plastering, etc.

SAN FRANCISCO, CAL.—D. H. Burnham & Co., Archs., Chicago, will receive bids for an addition to the Chronicle Building. It will be 16 stories, 100 × 50 ft., built of fireproof construction, brick and terra cotta, composition roof, steam heat, combination light fixtures, etc. Cost, about $300,000.

Townsend Co. will erect a 1-story and basement building and also a 3-story and basement building on King St., between Seventh and Townsend Sts. Cost, $222,500.

Mahoney Bros. have contract to erect an 11-story building at Grant Ave. and Post St., for Chas. T. and Jennie A. Crocker. It will be known as the Shreve building. Cost, about $350,000.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

MOSCOW, IDA.—Plans and specifications are asked by Mrs. J. H. Forney, Secy. Library Board, 310 A St., for a Carnegie Library building to be erected in this city at a cost of $10,000. Only plans accepted will be paid for.

NIAGARA FALLS, ONT.—The Clifton Hotel Co. will erect a $500,000 hotel here to replace the Clifton House, burned five years ago. Frank Allen Gifford is Arch. W. B. Rankine, of Niagara Falls, N. Y., is Pres. of the Co. Dr. H. Y. Grant, of Buffalo, is interested.

WALKERVILLE, ONT.—Public School Board has asked Council for appropriation of $50,000 for new schools.

VANCOUVER, B. C.—The Edison Display Co. will erect a modern theater to cost about $70,000, when site is secured.

WATER SUPPLY AND IRRIGATION.

BANGOR, ME.—New York Continental Jewel Filtration Co. has secured contract amounting to about $16,500 for installing new alum filters for city water-works.

GREAT BARRINGTON, MASS.—Special Committee of Fire District on possible sources of increased water supply for the district will make its report in a few days.

GLOUCESTER, MASS.—Water Commissioners, Alphonse Tarr, Chn., have petitioned State Harbor and Land Commissioners for leave to construct a pipeway under the canal at Western Ave. The subway is to be large enough to accommodate two 24-in. water mains and large gas main.

HOLDEN, MASS.—Referring to proposed new municipal water-works, S. W. Armington, Town Clk., writes that Board of Water Commissioners, consisting of Henry W. Warren, Peter Carr and Stillman F. Morse, were elected recently. Water supply is to be from Rutland, four miles distant, and cost of system is estimated at $55,000. Engineer had not been selected at time of writing, Nov. 11.

BRIDGEPORT, CONN.—Bridgeport Hydraulic Co. will, it is reported, build a storage reservoir about a mile north of Beaver Dam, covering 330 acres and capable of holding 1,250,000,000 gallons.

OSWEGO, N. Y.—Frank W. Ormsby, Supt. W.-W., is stated to have prepared plans and specifications for securing a supply of water from Lake Ontario. It is stated that the cost will exceed $210,000.

BUFFALO, N. Y.—Improvement of city water system at an expenditure of about $1,300,000 is stated to be under consideration. Of this amount $250,000 is for a new tunnel, with an inlet in the Emerald channel; $550,000 for a new pumping station, and the remaining $500,000 to replace the present pumping station building with a fireproof structure and to extend trunk mains in various parts of the city. Francis C. Ward is Comr. Pub. Wks.

NEW YORK, N. Y.—Contract for furnishing, delivering and laying water mains in various streets of Boroughs of Manhattan and Bronx has been let to Jno. Cornwell, 69 E. 127th St., for $118,242. Bids for this work were received Nov. 2, and itemized bids were given under Contract Prices in our issue of Nov. 10.

NEW YORK, N. Y.—Bids are asked by Aqueduct Commissioners until Dec. 6 for excavating and laying water pipes and appurtenances, refilling of trenches, etc., along west side of Jerome Ave., in connection with the Jerome Park Reservoir, of the new Croton Aqueduct, in the 24th Ward, Borough of the Bronx. Work requires 7,000 cu. yds. of excavation, 350 cu. yds. of concrete masonry, 100 tons of c. i. straight pipe, 48 ins., 8 tons of special castings, 300 lin. ft. of 48-in. c. i. pipe to be taken up, 400 lin. ft. of 48-in. cast iron pipe to be laid.

WEBSTER, N. Y.—Rochester & Lake Ontario Water Co. is stated to have applied for permission to lay its mains in this village, and if permission is granted a large stand-pipe will be erected here to supply this place.

WEST WINFIELD, N. Y.—Village has voted in favor of water-works for fire protection purposes.

JERSEY CITY, N. J.—Street and Water Board on Nov. 10 is stated to have awarded contract for construction of new water main in Hudson City district to Philip Tumulty. Work will cost about $20,000.

CHAMBERSBURG, PA.—We are informed that Major Chauncey Ives, Chambersburg, Pa., has been engaged to make the preliminary survey for the proposed municipal water-works for our town. It is hoped to build a gravity system, 11 miles in length, interrupted by a reservoir. An estimate of the flow of the stream, which it is proposed to tap, has been made and the quantity found to exceed 4,000,000 gallons per day. Major Ives is now engaged in making a plan profile and estimate. Dr. J. C. Greenewalt is Member Com.

RHEEMS, PA.—Erection of water-works here probable.

STEELTON, PA.—Borough has voted against making $80,000 loan for filtration plant, improvement of water system and for paving Front St.

LEBANON, PA.—Of the $165,000 loan which this city proposes to make, $110,000 is to be spent for a pipe line from the South Mountain dams, and the remainder for mains within the city limits. J. R. Beckley is Pres. Water and Light Comrs.; Thomas R. Crowell is Cy. Engr.

LITITZ, PA.—Borough is to purchase plant of local water company for $37,000.

JOHNSTOWN, PA.—Wm. P. Coulter and E. E. Davis, Johnstown, have applied for charter for Rockwood Water Co., which proposes to supply Rockwood Borough with water.

PHILADELPHIA, PA.—Contract for construction of a pumping plant at the League Island Navy Yard, bids for which were opened Oct. 29, has been let to Pneumatic Engineering Co., 128 Broadway, New York, for $13,257.

WASHINGTON, D. C.—Specifications are on file at office of Engineering News, 220 Broadway, New York, for furnishing material for Panama Water-Works, including corporation cocks, lead pipe connections, expanders, service stops, tapping machines and parts, etc. Bids are asked by Isthmian Canal Commission until Nov. 25, as stated in Engineering News of Nov. 10.

NORFOLK, VA.—We are informed that only preliminary inquiry has been held as to supply and use of salt water from Ely River for fire purposes and for flushing sewers. City has excellent water, but it is desired to use river water in place of filtered water for fire-fighting purposes. M. Umstedter is Chn. Special Com.; W. T. Brook is Cy. Engr.

MARION, N. C.—Bids are asked by Water-Works Committee until Nov. 25, instead of Nov. 12, as was stated in our issue of Nov. 10, for furnishing material and constructing water-works. (Advertised, Engineering News, Nov. 10.)

WALHALLA, S. C.—Oconee Water, Light & Power Co., Walhalla, is reported to be in the market for 150,000-gallon standpipe, six miles, 6 to 10-in. mains and 25 to 30 hydrants.

CARROLLTON, GA.—Bids are asked by Board Water Commissioners until Dec. 7 for furnishing material and equipment for water-works system, requiring two 80-HP. boilers, two 750,000-gallon compound pumps, a centrifugal pump and engine, feed water heater, 90,000-gallon tank on 75-ft. tower, 15 ft. diameter by 100 ft. high standpipe, 50 fire hydrants and 22 valves. J. B. McCrary, Senoia, Ga., Engr.; L. C. Mandeville, Comr. (Advertised, Engineering News.)

DOUGLAS, GA.—Bonds have been voted for construction of water-works and electric light systems for this place.

ATLANTA, GA.—Board Water Commissioners are stated to have rejected bids for construction of all parts of new coagulating basin and will readvertise the work. Park Woodward is Gen. Mgr. W. W.

GRACEVILLE, FLA.—Graceville Electric Light & Water Co., Robt. J. Boone, Secy., Marianna, Fla., is reported to want services of a consulting engineer to assist in planning and building an electric light plant and water-works system.

CHATTANOOGA, TENN.—Ordinance has been before Council granting City Water Co. right to lay mains from point on Prospect St., through Boynton Park, for the purpose of erecting stand-pipe on Cameron Hill.

KNOXVILLE, TENN.—N. B. Morrell, Secy. W.-W. Comn., writes us that contract for new water-works was awarded to W. W. Cook & Son, Junction City, Kan., for $608,175 (mentioned in our issue of Nov. 3). Local press reports state that in addition to the above a contract has been let to the Callahan Construction Co., Knoxville, for the extension of water mains, connections, etc., and for this work the Commission may expend about $100,000.

LEWISBURG, TENN.—Proposition is to be submitted to Council, according to reports, for installation of water-works.

MADISONVILLE, KY.—At recent election it was voted not to issue bonds for building water-works.

BARNESVILLE, O.—Bids will be opened Nov. 18 by J. T. Moore, Clk. Bd. Trus. of Pub. Affairs, for construction of water-works system for this village, consisting of six miles of pipe distribution with pipe from 12 ins. in diameter and 67 hydrants, and necessary valves and valve boxes, and one and two-third miles of 12-in. force main; also a new impounding reservoir with earthen dam and masonry core walls and supply pipe lines; also a brick pumping station and for pumping machinery and boilers. Chapin & Knowles, Engrs., Canton, O.

ELYRIA, O.—We are informed that specifications will be ready in a few days for a new 5,000,000-gallon pump. Geo. L. Weller, Supt. W.-W., is official in charge.

NEW CARLISLE, O.—Special election may be held soon to vote on $15,000 bond issue for installing water-works. National Construction Co., South Bend, Ind., has submitted plans and estimates for a system, which call for the expenditure of about $13,923.

INDIANAPOLIS, IND.—Indianapolis Water Co., F. A. W. Davis, Pres., according to reports, is to spend about $110,000 in improving its system. A 36-in. main will be laid from the river to the reservoir and the walls of the latter will be walled up, making it water tight. Improvements will also be made at the pumping station.

CHICAGO, ILL.—Bids are asked by Department Public Works until Dec. 1 for designing, furnishing and erecting in Lake View pumping station, four internally fired horizontal return tubular boilers fitted with automatic stokers and all necessary appurtenances. F. W. Blocki, Comr. Pub. Wks.

SHELBYVILLE, ILL.—Shelbyville Water Co. has been granted new franchise, by the terms of which the company agrees to lay a mile of new mains, increase number of hydrants from 62 to 75, and to install two new boilers.

WATERMAN, ILL.—We are informed that all bids received Nov. 7 for erection of water tank and tower for this village were rejected and proposals will be received about Dec. 1 for complete water system. Kenwood Bridge Co., 1416 First National Bank Bldg., Chicago, Ill., at $2,300, was low bidder for steel tank and tower. S. M. Henderson is Pres. Village Bd.

MILWAUKEE, WIS.—Board Public Works is calling for bids until Nov. 29 for 20,000,000-gallon pumping engine to be installed at the North Point station.

SPOONER, WIS.—We are informed that nothing will be done this fall toward municipal water-works further than to sink well and float the bond issue. Oscar Clausen, St. Paul, Minn., is Des. Engr., and F. Hammill, Village Pres.

WASHBURN, WIS.—City voted Nov. 8 on purchase of local water-works.

KIEL, WIS.—Bids were received by Village Board, Oct. 26, for furnishing 60,000-gallon steel tank and 75-ft. steel tower, 40-HP. gasoline engine, and pumps. Contract for engine was let to Marinette Iron Works Co., Chicago Heights, for $1,325 and contract for tank and tower to Chicago Bridge & Iron Co., Chicago, Ill., for $3,146. Contracts for pumps were not awarded, the letting being postponed until Dec. 5, when a deep well pump of 300 gallons capacity and a centrifugal pump of 300 gallons capacity will be purchased. Contracts for water mains, hydrants, etc., in connection with above work, bids for which were received Sept. 27, were awarded as follows: Pipe, U. S. Cast Iron Pipe & Foundry Co., Chicago, Ill.; valves and hydrants, Ludlow Valve Co., Chicago, Ill.; laying pipe, J. W. Mitchell, Madison, Wis.; W. G. Kirchoffer, Madison, Wis., is Consult. Engr.

WOODWARD, IA.—Town voted Nov. 15 on $8,000 bond issue for erecting water-works.

EVELETH, MINN.—James Dowling, Eveleth, is stated to have been awarded contract for extension of water-works to St. Mary's Lake for $47,875. Work includes digging of ditch and erection of pump and power house at the lake.

MINNEAPOLIS, MINN.—We are informed that at the recent election the proposition for issuing $1,000,000 of bonds for a filtration plant was defeated. Efforts for the establishment of the plant will be made through the legislature or in a private way. Andrew Rinker is Cy. Engr.

TOPEKA, KAN.—Council has passed resolution in favor of immediate purchase of the local water-works.

HOWELL, NEB.—Town has voted in favor of water-works.

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DEADWOOD, S. DAK.—This city, according to reports, is to at once commence work on the ditch with which to bring water from head of Elk Creek. $130,000 bonds were voted recently for this matter.

LARAMIE, WYO.—Union Pacific R. R. is stated to have made proposition to city to construct, itself, reservoir and pipe line, for which citizens voted an appropriation of $12,000 last month. J. B. Berry, Omaha, Neb., is Engr., U. P. R. R.

KANSAS CITY, MO.—Board Public Works has prepared specifications prepared for another 20,000,000-gallon pressure engine at Turkey Creek Station. Bids for two new pumping engines for Quindaro Station are also to be called soon. It is also stated that plans for the first tunnel under the Kaw River will be completed within days. S. A. Mitchell is Ch. Engr. W.-W.

SALISBURY, MO.—City has voted to issue $20,000 bonds for water-works.

CORSICANA, TEX.—Council Committee on purchase of plant of Corsicana Water Co., will report, it is stated, plant be not purchased at present.

ST. LOUIS, MO.—We are informed that matter of proposed extensions and improvements of Chain of Rocks pumping station has been gone over by the Board of Public Improvements. Preliminary plans and specifications are being made preparatory to introducing ordinances in the Councils. The work projected will involve total expenditure of about $1,000,000. Ben. C. Adkins is Water Comr.

ANADARKO, OKLA.—Special election was to be held Nov. 15 to vote on bond issue for extension of water-works.

MUSKOGEE, IND. T.—We are informed that new water at pumping station, bids for which are to be opened Nov. 23, is to consist of one low service pump of 2,000,000 gallons capacity, and a 80-HP. boiler and engine. Bids for centrifugal and horizontal pumps are to be considered. Burns & McDonnell, Kansas City, Mo., are Des. Engrs. J. R. Wilson is Supt. W.-W. The above is probably part of the work in connection with the construction of 15 miles of water mains, building settling basins and filtration plant, bids for which are being asked by W. W. Momyer, Cy. Recdr., until Nov. 22.

DENVER, COLO.—Bids are asked by Col. C. A. H. McCauley, C. Q. M., U. S. A., until 11 a. m., Nov. 21, for constructing water supply system at Fort Wingate, N. Mex.

RATON, N. MEX.—Bids are asked by Raton Water Works Co., A. L. Hobbs, Secy. and Supt., for complete construction of 12-in. continuous stave wooden pipe, 21,600 ft. long, with relief chamber, valves, etc. Specifications may be obtained from Thos. W. Jaycox, Engr., Denver, Colo., or from the Superintendent at Raton. (Advertised, Engineering News.)

COLFAX, WASH.—City voted Oct. 26 to issue not more than $55,000 of bonds for a gravity water system. Supply is to be brought from springs 14 miles distant.

ROCKFORD, WASH.—We are informed that bids will be opened soon for proposed new water-works for this place, to cost $7,000, and to consist of 25-HP. gasoline engine, two 44,000-gallon tanks, about three miles of 4-in. to 8-in. wood pipe, hydrants and other appliances. Designing engineer had not been employed at time of writing, Nov. 5. Mayor and Council are officials in charge. J. B. Gilbert is Town Clk.

PORTLAND, ORE.—City Water Board let contract Nov. 3 to U. S. Cast-Iron Pipe & Foundry Co., Chicago, Ill., for furnishing 550 tons cast-iron pipe and 22,000 lbs. special castings for a total of $17,100. Contract for corporation cocks was let to Crane Co., Portland, Ore., for $3,938.

McMINNVILLE, ORE.—City may vote soon on bonding for about $75,000 for securing new water supply by gravity system from mountain stream eight miles distant.

MODESTO, CAL.—Trustees have accepted the propositions made by Frank A. Cressey and C. T. Tulloch to pump water and furnish electric lights for the city, respectively. Contracts are to go into effect Dec. 1, 1904.

SAN DIEGO, CAL.—Council has employed C. S. Alverson as Engr. to conduct an investigation of river sands in El Cajon Valley with a view to estimating the amount of water available and the best location for a pumping plant to supply the city.

SONORA, CAL.—The Main River Water Co., assignee of W. D. Bannister, has recorded an amended notice of appropriation of 10,000 ins. of water of the middle fork of the Stanislaus, to be diverted at falls at upper end of Donnell's Flat.

VENTURA, CAL.—Board of Trustees, according to reports, have engaged C. E. Moore, Consult. Engr., Santa Clara, Cal., to prepare plans and specifications looking to securing of municipal water and light plants for this city.

WHITTIER, CAL.—Frank H. Olmstead, Los Angeles, Cal., has been employed to draw specifications for proposed water system, for which bond issue is to be voted on.

MACLEOD, N. W. T.—Water-works under consideration.

PALMERSTON, ONT.—Approximate estimates of cost of water-works for this place have been made by John Galt, Consult. Engr., Toronto, Ont., and it is probable that system will be put in next spring.

SEWERAGE.

WORCESTER, MASS.—John J. Van Valkenburgh, C. E., of South Framingham, is preparing plans for sewer system to be installed at State Insane Hospital.

AUBURN, N. Y.—Bids are asked until 8 p. m., Nov. 21, for constructing a sanitary and a storm water sewer in Cornell St. E. H. Herriing, Cy. Clk.

NEW YORK, N. Y.—Bids are asked until 11 a. m., Nov. 22, for constructing sewers in portions of the following streets: Bryant and Morimon Aves., Lebanon St., Cottage Pl. and at 188th St. and Aqueduct Ave. Also for other sewer work. Louis F. Haffen, Pres. Boro. Bronx.

GENEVA, N. Y.—Gates Ave. sewer contract has been awarded to R. W. Henson at $2,936.

JERSEY CITY, N. J.—Bids were received on Nov. 7 by Board Street and Water Commissioners for constructing relief sewer in Jackson Ave., Union St., Claremont Ave., Garfield Ave. and Carteret Ave., thence to New York Bay tidewater. J. Roosevelt Shanley, 26 Exchange Pl., Jersey City, was lowest bidder at 97 cts. a foot and was awarded contract. It approximates $158,000. Estimated quantities: Circular brick sewer, about 280 ft. of 30-in., 240 ft. of 33-in., 235 ft. of 48-in., 50 ft. of 51-in., 200 ft. of 54-in., 540 ft. of 60-in.; 2,000 cu. yds. of rock excavation; 1,400 cu. yds. of concrete; 100 cu. yds. of brick masonry; 50,000 ft. of piles, driven; 122,000 ft. B.M. capping; 220,000 ft. B.M. flooring; 50,000 ft. B.M. sheathing; 27 receiving basins, connected 12-in. pipe. Also following steel pipe sewer: 120 ft. of 52-in., 1,460 ft. of

in., 300 ft. of 60-in., 710 ft. of 72-in., 3,400 ft. of 96-in.; brick sewer: 280 ft. of 42-in., 250 ft. of 33-in., 625 ft. of in., 1,100 ft. of 51-in.; three expansion joints; ten air ves with cast-iron covers; 20,000 steel I-beams, at 2½ per lb. Time allowed for the completion of the work, working days. James S. Nolan, Chn. Com. on Sts. Sewers; Geo. T. Bouton, Clk. Bd. $163,000 will be ailable Dec. 1 for this work. C. H. Van Keuren is Engr. Bd.

HARRISBURG, PA.—It is reported that $100,000 will required for new sewers within next two years. M. Cowden, Cy. Engr., is preparing plans for sewers in rious portions of city.

MECHANICSBURG, PA.—A. G. Richwine, Mechanicsrg, F. E. Thompson and Merkel Landis, Carlisle, Pa., others, will apply for charter Nov. 22 for the Mechanicsburg Sewerage Co. This company contemplates stalling a sewer system in Mechanicsburg.

SAYRE, PA.—Question of sewers for this place is under nsideration by borough Council. Report of George everly, Chn. of Com., has been presented. It places estited cost of a system at $120,000, but this amount may decreased to $93,000. A $37,000 sewer is recommended be constructed at once. N. F. Walker, C. E., is interested.

ELIZABETH, N. J.—P. J. Ryan, Mayor, and N. K. Thompson, St. Comr., are interested in plan to build a unk sewer along the Elizabeth River.

BALTIMORE, MD.—Municipal Board of Estimates has appropriated $144,000 for street improvements and also $30,000 for widening and macadamizing St. Paul St., it is reported.

MILLEDGEVILLE, GA.—City will vote on Jan. 24, 1905, on issuance of $20,000 of bonds for constructing sewer system.

DARLINGTON, S. C.—It is reported that bids will be asked next month for construction of sewer system. Charles C. Wilson, of Columbia, S. C., is Engr. in charge. $20,000 of bonds were reported voted for this purpose.

HAMILTON, O.—W. H. Louthan, City, was awarded contract for a storm sewer in Central Ave.

CLEVELAND, O.—City may appropriate $40,000 for an intercepting sewer in Gordon Park and $65,000 for completion of Connelly section.

BRAZIL, IND.—Bids were reported to have been received as follows for the construction of a sewer system: Forbes, Foulks & Co., Terre Haute, $20,018; Wm. Rehling & Co., Dayton, O., $26,346; Keegan & Co., Brazil, $27,340; Jesse Robertson, Terre Haute, $21,039; Peter Simons, Quincy, Ill., $25,775; Roberts & Co., Terre Haute, $16,697. G. A. Fletcher is Cy. Engr.

DIXON, ILL.—Bids are asked until 2 p. m., Nov. 26, for Crawford Ave. sewer contract. F. F. Edwards, Pres. Local Improvements Bd.

DAVENPORT, IA.—Estimate cost of sewer from Orphans' Home to Mercy Hospital is placed at $65,824. It is necessary to raise about $17,000 before contract can be let.

LE SUEUR, MINN.—Bids are asked until 8 p. m., Nov. 25, for laying 970 ft. of 16-in. sewer pipe. T. G. Mahler, Cy. Clk.

OMAHA, NEB.—It is reported that the Omaha, Lincoln & Beatrice Interurban Ry. Co. has acquired 1,000 acres at Sarpy Mills. It will be transformed, according to local report, into a manufacturing city. Water-works and a sewer system will be installed and a power plant erected.

FAYETTEVILLE, ARK.—We are informed that $60,000 is estimated cost of proposed sewer system that will be installed. Sewer districts are now being formed. Prof. Knock is Engr. in charge of work. For further information, address Mayor.

NACOGDOCHES, TEX.—An election will be held Nov. 22 to vote on issuance of $50,000 water-works and sewer bonds. R. T. Schindler is Mayor.

SEATTLE, WASH.—Stirrat & Goetz have been awarded contract for 33d Ave. sewer, at $6,965. R. H. Thompson is Cy. Engr.

DENVER, COLO.—Bids are asked by Board Public Works until 11 a. m., Nov. 17, for constructing sanitary sewers, manholes and appurtenances in and for West Colfax Ave. special sanitary sewer district. Specifications, blank form of proposals, etc., may be obtained at office of the board. Geo. E. Randolph is Pres.

ROCKY FORD, COLO.—Following are three lowest bids received Oct. 24 for constructing sewer system for this city: Piper Bros., Pueblo, Colo., $28,761; E. R. Joyce, Colorado Springs, Colo., $29,923; Standard Construction Co., Pueblo, Colo., $31,159.

ST. JOSEPH, MO.—Plans, profiles and specifications for Blacksnake Creek and Sycamore St. sewer extensions are on file at New York office of Engineering News. Bids are now advertised in Engineering News to be received until Dec. 1. W. H. Floyd, Jr., City Engr., informs us that bids will be received on both sewers in three ways: (1) Brick sewer complete; (2) concrete sewer complete; (3) reinforced concrete sewer complete. Under the last form the contractor will furnish, in addition to proposal, a complete set of plans and specifications for reinforced concrete construction.

BERKELEY, CAL.—Ordinances providing for new sewers have been passed by Board of Trustees.

BOISE, IDAHO.—Council has adopted plans submitted by Sewer Committee for connecting the old and new sewer systems at one point to empty into the river. Ordinances will be prepared. Estimated cost, $10,000.

MONTREAL, QUE.—Bids are asked until noon, Nov. 21, for constructing sewers in portions of Boucher and Davidson Sts. John R. Barlow, Cy. Surveyor.

GARBAGE DISPOSAL—STREET CLEANING

PORTLAND, ME.—Bids are asked by Capt. A. W. Yates, Q. M., U. S. A., until Dec. 7, for construction and erection of a crematory, complete, including building, at Fort McKinley, Me.

LOWELL, MASS.—Board of Health, according to reports, will ask Council for $10,000 appropriation, with which to build a crematory.

SOMERVILLE, MASS.—Bids are asked by Board of Health, Wm. P. Mitchell, Clk., until 9 a. m., Nov. 23, for disposing of house offal collected by the city for a term of five years.

NEW YORK, N. Y.—Bids are asked by Board of Health, 55th St. and 6th Ave., until 10 a. m., Nov. 23, for furnishing all the labor and materials necessary or required for the removal of night soil, offal and dead animals from the city of New York, all boroughs, during ensuing five years, contract to be awarded as a whole or by each borough separately. Thomas Darlington, M. D., Pres.

DUQUESNE, PA.—City voted Nov. 8 on $90,000 bond issue for street improvement and for erection of garbage furnace.

DUBOIS, PA.—This place is likely to advertise soon for propositions looking to garbage disposal. R. Dawson Hall is Borough Engr.

MARION, O.—Bids were opened by Board Public Service Nov. 2 for construction of garbage and sewage disposal plant. Contract is stated to have been let to Clinton Foundry & Machine Co., New York, for $56,738.

LONDON, ONT.—Board of Health will recommend, it is stated, installation of Dixon garbage plant to cost in all $10,625, divided as follows: Building, $2,625; 15-ton crematory, $5,500; duty, $1,125; wagons, horses, etc., $1,375. By law will probably be voted on in January.

STREETS AND ROADS.

BROCKTON, MASS.—Highway Committee have voted to macadamize Bartlett St. Cost about $1,200. Chas. R. Felton is Cy. Engr.

WORCESTER, MASS.—An order providing for construction of Granite St. was passed by City Council. Est. cost, $6,450. Frederick A. McClure is Cy. Engr.

LITCHFIELD, CONN.—James H. Macdonald, Highway Comr., has let contract for grading and rubble drain for this town, to Herbert S. Jackson, of New Haven, for $5,079.

KINGSTON, N. Y.—Committee on Ways and Means, at a recent meeting of Common Council, reported in favor of having an ordinance prepared for widening of Albany St. The matter was referred to City Engineer to have a proper survey made.

SCRANTON, PA.—City Engineer has completed the work of establishing grades for sidewalks in 19th Ward. Property owners have received second notices to proceed with the work.

FREEPORT, PA.—Borough has voted to issue $10,000 bonds for paving of streets and other improvements.

LANDMARK, VA.—The resolution of Finance Committee recommending an appropriation of $38,278 for establishing a boulevard from Granly St., through Sixth Ward to Lafayette Park, was placed upon its first reading.

SAVANNAH, GA.—Ordinances for the paving of three streets next year have been introduced in Council.

GRIFFEN, GA.—The Street Committee was given authority by Council to have all sidewalks that are in bad condition repaired.

BIRMINGHAM, ALA.—Ordinances were introduced for 29,500 sq. yds. macadam paving and 22,500 sq. yds. paving with creosoted wood blocks.

NEW IBERIA, LA.—J. W. Taylor, City, was awarded the contract for 88,000 sq. ft. cement walks and 38,000 lin. ft. curbing in this city.

CHATTANOOGA, TENN.—Petitions for the paving of East Fourth St. and for laying a roadway on Payne St., were presented to City Council.

JOHNSTOWN CITY, TENN.—County Commissioners will build three miles of road next year.

HAMILTON, O.—W. N. Andrews, City, was awarded the contract for repairing Main and High Sts. with block asphalt at $4,663 and $4,268, respectively.

CINCINNATI, O.—Resolutions declaring it necessary to improve Marmet and Vernon Sts. by grading, curbing and paving was passed by Council. Edwin Henderson is Clk. of Council.

CINCINNATI, O.—We are informed that the preliminary survey to improve Linwood Ave. with bituminous macadam has been passed by Council. The ordinance to improve has not yet been passed.

MARTINS FERRY, O.—Council has passed the sidewalk resolution and also ordinance to pave alley between Fourth and Fifth Sts.

ZANESVILLE, O.—The ordinance providing for cement sidewalks on Zane Ave. with vitrified brick crossings has passed the Council.

STEUBENVILLE, O.—The City Clerk has been instructed to advertise for bids for paving alley, Court St.

CONNERSVILLE, IND.—Ordinance has been passed issuing bonds of $13,230 for street improvements.

INDIANAPOLIS, IND.—Bids are asked until Nov. 18 by Board Public Works for improving by grading, graveling and rolling roadway on a portion of 32d St. M. A. Downing, Chn.

ANDERSON, IND.—Bids are asked by Frank A. Sharp, Cy. Clk., until Nov. 21 for improving a portion of Jackson St.

STERLING, ILL.—A petition is in circulation for the establishing of a new road along the bluffs east of this city.

BENTON HARBOR, MICH.—City Council intends paving Lincoln and Fourth Sts. this fall.

DES MOINES, IA.—Bids are asked until Nov. 21 by Board Public Works for paving with No. 1 vitrified brick on 6-in. broken stone concrete foundation with Portland cement top filler portions of Indiana Ave., in all about 743 sq. yds. W. W. Wise, Chn.

BOONE, IA.—E. S. Sanuelson has been awarded the paving contract of Fifth and Greene Sts.

ST. PAUL, MINN.—The Board Public Works has awarded to James Forrestal Co., the contract for curbing and improving Marshall and Dayton Aves. The bid was $5,285.

KEYSTONE, S. DAK.—City Engineer was instructed by Council to make survey for the proposed extension of Ninth Ave.

HELENA, MONT.—Main St. will probably be paved with asphalt in the near future.

WEBB CITY, MO.—Bids were received Nov. 7 for about 18,274 sq. yds. of brick paving, A. F. Frank, Jacksonville, Ill., offering estimate totaling about $33,807 for the work. The work will be readvertised and contract let in December. W. E. Smith is Cy. Engr.

WEBB CITY, MO.—Bids are asked by W. E. Smith, Cy. Engr., until Dec. 19 for furnishing labor and material and constructing the following vitrified brick pavement: Approximately, 8,306 sq. yds. on Allen St.; 4,042 sq. yds., Daugherty St.; 3,422 sq. yds., Main St.; 1,749 sq. yds., Webb St.; 755 sq. yds., Church St. Separate bids for each street. (Advertised, Engineering News.)

AUSTIN, TEX.—The Paving Committee will recommend to City Council that vitrified brick be used in paving Congress Ave. The bid of Brown & Dabney for $61,500 will be accepted.

GALVESTON, TEX.—Bids are asked by County Commissioners until Nov. 18, 3 p. m., for grading county road from Highland Bayou to Hitchcock. Geo. H. Law, Jr., County Clk.

SEATTLE, WASH.—The petition for grading of Westlake boulevard was referred to the Council. The improvement calls for the opening of a street 90 ft. wide at a cost of $49,000.

SEATTLE, WASH.—The following contracts have been awarded by Board Public Works: Concrete walks, 14th Ave., T. Ryan, for $7,560; 19th Ave., L. H. Goerig, for $4,554. R. H. Thomson is Cy. Engr.

SEATTLE, WASH.—A resolution providing for the grading of Boren Ave. and the construction of concrete sidewalks has been presented Street Committee. Est. cost, $11,450.

SEATTLE, WASH.—Street Committee will recommend for passage an ordinance providing for the grading of 24th Ave. North.

LOS ANGELES, CAL.—An ordinance providing for the grading of Vermont Ave. was passed by City Council. H. J. Lelande, Cy. Clk.

SAN FRANCISCO, CAL.—The Supervisors Street Committee reported in favor of recommendation of Board of Works that Fourth St. be repaved and widened at a cost of $17,500, and ordered the preparation of an ordinance for doing the work.

SAN FRANCISCO, CAL.—The work of repaving H St. at the cost of $35,000 was ordered by Board of Supervisors. F. M. Yorke Co. has the contract.

MANUFACTURING PLANTS.

CALAIS, ME.—The Saint Croix Paper Co. has been organized here for the purpose of developing water-power and building and operating paper mills at Spragues Falls, on the St. Croix River, 10 miles above Calais, on the line of the Washington County R. R. Capital, $2,500,000. Capacity of mill, 100 tons of paper per day. Frank Todd, St. Stephen, N. B., is Pres. Isaac B. Horsford, New York, is Vice-Pres. and Gen. Mgr.

ALBANY, N. Y.—The Regent shirt factory, North Ferry St. and Broadway, will enlarge its plant in the spring.

NEW YORK, N. Y.—The Webster Mfg. Co., 38 Dey St., City, was awarded the contract for complete equipment of power transmitting machinery and elevating and conveying machinery, also coal handling machinery, for the Hecker Mill, now being erected here by the Hecker-Jones-Jewell Milling Co., 207 Produce Exchange.

TROY, N. Y.—Charles P. Boland Co., builders, City, have started the erection of a 100 × 25 ft. brick factory building for F. W. Coons, City. Stanton P. Lee is Arch.

NEWARK, N. J.—The Newark Rivet Works are about to build a large factory to cost $30,000, in the rear of 146 Monroe St. The structure will be four stories in height and will measure 51 × 190 ft. Contracts for the mason and carpenter work have been awarded to Wm. B. Gordon and C. C. Bailey, respectively.

PERTH AMBOY, N. J.—The United Lead Co. will shortly begin the erection of two white lead plants, one at this place and the other at Granite City, Ill.

WYALUSING, PA.—A stock company is being organized here for the purpose of starting a lace factory.

PHILADELPHIA, PA.—Plans have been filed with Bureau of Building Inspection for a dye house to be built by Wm. Steele & Sons, City, at Third and Cambria Sts. for Folwell Bros.

PHILADELPHIA, PA.—Plans have been prepared by Otto C. Wolf, Arch., for a two-story brick and terra cotta ice machine house, 54 × 60 ft., for brewery of Theodore Finkenauer.

KANE, PA.—Baldwin-Wavis Co., Elmira, N. Y., F. E. Baldwin, Pres., will erect bottle manufacturing plant here, 89 × 161 ft. H. M. Wachter, Toledo, O., is Arch.

LATROBE, PA.—Pearce Mfg. Co., owned by Pittsburgh Dry Goods Co., F. H. Lloyd, Pres., 933 Penn Ave., Pittsburg, will equip a woolen mill here. Company has purchased a plant consisting of four buildings. New transmission machinery and general mill supplies will probably be required. No new power equipment will be needed.

JOHNSTOWN, PA.—Lorain Steel Co. has awarded contract for bolt, shear and truck department addition to W. J. Ross & Sons, City. Brick and iron, one story, 165 × 250 ft.

PARKERSBURG, W. VA.—Colonial Plate Glass Co., F. S. Brockett, Secy., City, has plans under way for plate glass plant here. Cost $115,000. Brick and steel, one story, 90 × 300 ft., 60 × 300 ft., 40 × 260 ft. Plans are now ready for estimates.

NEWTON, N. C.—The Newton Hosiery Mills are to be enlarged.

ROCKY MOUNT, N. C.—Rocky Mount Guano Co. has been chartered with $25,000 capital, to establish a 50-ton fertilizer plant in connection with Planter's Oil Mill. H. E. Brewer & Co. are interested.

COLUMBUS, GA.—The Columbus Iron Works will erect a sash door and blind factory. Machinery purchased.

GROVANIA, GA.—The Grovania Oil Co., which lost its mill and gin by fire recently, will rebuild at once. The loss was $40,000. All new machinery is wanted.

SAVANNAH, GA.—A new fertilizer company is being organized here by J. T. Wells to establish a fertilizer factory.

LAWRENCEVILLE, GA.—The erection of a knitting mill at this place is contemplated by Sparta, Tenn., parties. Secretary Board of Trade can probably inform.

MACON, GA.—The erection of a hardwood handle factory is projected. Address the Mayor for information.

ATLANTA, GA.—The Fulton Foundry & Machine Works, Will L. Hancock, Gen. Mgr., are having plans made for a new plant to be in operation by Jan. 1. It will include two steel and brick buildings, fireproof construction, each 120 × 300 ft. These will be equipped with electric traveling cranes and in machine shops the equipment will be of the most modern make. At present they employ about 80 mechanics, the products being a general line of castings and special machinery.

PENSACOLA, FLA.—The Bay Point Mill Co., capital $200,000, has been chartered here to conduct a general mill and lumber business. Albert T. Rossasco, of Genoa, Italy; W. S. Rossasca, of Pensacola; P. L. Rossasco, of Pinewood; T. Frost, of Milton, and P. M. Macarthy, of Pinewood, are the incorporators.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

DADE CITY, FLA.—The Dade City Ice Co. will erect a packing plant here.

BIRMINGHAM, ALA.—The White Swan Laundry Co. will erect a brick laundry building at a cost of $8,000.

HUNTSVILLE, ALA.—The erection of a canning factory is projected. Secretary Chamber of Commerce can inform.

BESSEMER, ALA.—The United States Cast Iron Pipe & Foundry Co., which has obtained the contracts for most of the pipe to be used in the water supply at Panama, is planning to enlarge its plant here. It is thought that about $200,000 will be expended in making alterations.

HUNTSVILLE, ALA.—The Butler-Kyser Oil Co. will erect a fertilizer factory here. A. M. Booth has secured the contract for erecting the buildings.

BIRMINGHAM, ALA.—A. D. Bellamy, of Huntsville, Ala., states through the "Pink Sheet Daily Bulletin" that the Union Asphalt Refining Co. organized recently at Birmingham, instead of at Columbus, Ga., to develop asphalt deposits and erect a refinery in Oklahoma City, Okla., will be in the market for a steam shovel and machinery for refinery.

BESSEMER, ALA.—The plant of United States Cast-Iron & Pipe Foundry Co. at this place will, it is stated, be enlarged and improved at an expenditure of $200,000.

BIRMINGHAM, ALA.—The erection of a plant for the manufacture of gin brushes is contemplated. Address Secretary Commercial Club for information.

JONESVILLE, LA.—Capt. J. W. Swayze is interested in a company being formed with $50,000 capital to build an oil mill.

RIPLEY, MISS.—A buggy and coffin factory will be erected here by C. W. Young and he will probably want prices on machinery at an early date.

GULFPORT, MISS.—The Gulfport Turpentine Co. has been chartered with a capital of $20,000. The incorporators are W. G. Gillican, A. H. Powell and D. C. Bacon, of New Orleans, and J. F. Payne, of Bay St. Louis. The object of the company is to manufacture turpentine and rosin.

GREENWOOD, MISS.—The C. E. Wright Ice & Coal Co. will double the capacity of its ice factory and bottling plant.

SUMRALL, MISS.—The J. J. Newman Lumber Co., of Hattiesburg, will commence at once the erection of a $200,000 saw mill at Sumrall. The capacity of the plant will be 7,000,000 ft. of lumber per month. The headquarters of the new mill will be at their office in Hattiesburg.

SEALE, LA.—The plant of the Midway Lumber Co. will be rebuilt.

CARTHAGE, TENN.—A company has been organized here for the purpose of erecting a $5,000 saw mill and hoop factory. Judge J. T. Fisher, M. J. Malone, E. High and others are interested in the enterprise.

NASHVILLE, TENN.—A baking powder plant will be erected here. This plant will be installed in a 4-story building, 50 × 200 ft., and the equipment of machinery will have a capacity of 10,000 cans daily. About all the machinery has been purchased, but information regarding automatic packers for weighing and labeling packages is solicited. Cost, $500,000. The incorporators are Wm. J. Cummins, City; E. C. Goshorn, of Cincinnati, O., and Geo. Cummins, Gen. Mgr.

KNOXVILLE, TENN.—The Knoxville Brick Co. will enlarge its brick works at Powell's station. New and improved machinery will be installed and plant will be repaired and placed in first-class condition.

JACKSON, TENN.—The Southern Tile & Brick Works are in the market for a full outfit of machinery for a pottery, and will want quotations on same. Rush A. Jones is Pres.

MOORESVILLE, TENN.—The erection of a canning factory and also a laundry are contemplated. The Mayor can probably give information.

NASHVILLE, TENN.—The Tennessee Packing & Food Co. will enlarge its plant at a cost of $50,000.

KIDDVILLE, KY.—A sawmill will be erected here by G. G. Cook.

SALT LICK STATION, KY.—The Radcliff Canning Co. will erect a canning factory in the spring. N. R. Radcliff is Secretary and can give information.

BEATTYVILLE, KY.—The Beattyville Tie & Lumber Co., recently organized, will erect a lumber plant here. Capital, $50,000.

LOUISVILLE, KY.—J. C. Woodcock, of Chillicothe, O., contemplates establishing a plant here for the manufacture of milling machinery. Secretary Commercial Club can inform.

SALT LICK STATION, KY.—The Salt Lick Woolen Mill Co. will erect a woolen mill here and will be in the market for a full equipment of machinery for same.

RUSSELLVILLE, KY.—The Russellville Ice Factory Co. will erect a new ice factory here.

EDDYVILLE, KY.—The Kentucky Foundry Co. has been incorporated with a capital of $15,000. Its main plant will be in Eddyville. Incorporators are: J. B. Girdler, A. N. Webb, and J. W. McMullin.

LOUISVILLE, KY.—The Adler Organ Co. will build a $250,000 piano factory next spring as an addition to its present plant.

TOLEDO, O.—The Banting Machine & Implement Co. has increased its capital stock from $75,000 to $225,000 and will erect a warehouse and repair shop on Monroe St.

The Mayo Life Boat Co. has been organized with a capital stock of $500,000 to manufacture a steel life boat, the invention of Robt. D. Mayo, of Frankfort, Mich. The company is planning to erect a factory building, 60 × 240 ft., which, when equipped with machinery, will cost over $100,000.

CLEVELAND, O.—Geo. S. Rider & Co., Engrs., awarded contract for a factory building to be erected at plant of Cleveland Hardware Co. on Hamilton St. Brick and steel, 4 stories, 175 × 80 ft. Cost, $100,000. John Gill & Sons received the general contract.

SHELBYVILLE, IND.—Fire destroyed the Wm. Nading elevator and hominy mills. The Vandegrift wrench factory near by also burned. The total damage is estimated at $75,000; insurance, $40,000.

ELKHART, IND.—The Sidway Mfg. Co. has incorporated with a capital stock of $75,000. It is given out that the company will erect a large factory plant in this city.

GREEN CASTLE, IND.—The Green Castle Brick Co. has incorporated with a capital of $25,000 and will, it is announced, erect a plant to manufacture brick, tile and other clay products. Louis A. Greiner is Pres.

INDIANAPOLIS, IND.—The Marian Motor Co. will erect a 2-story brick factory building on 15th St. Plans are being made and bids will follow their completion. Cost, $8,000.

The Republic Chemical & Creosoting Co.'s plant in West Michigan St., recently destroyed by fire, will be rebuilt on a larger scale. Bids will be invited as soon as plans are completed.

INDIANAPOLIS, IND.—The Hollenbeck Press Co. has let contract for printing plant to be erected at New Jersey and Market Sts.

CHICAGO, ILL.—The Gutmann Tannery Co. will build a 5-story addition, 42 × 103 ft., to its plant at Dominick St. and Webster Ave., and a 2-story boiler plant, 22 × 103 ft. About $60,000 will be spent.

MILWAUKEE, WIS.—The Pfister & Vogel Co. has taken out a permit for a new tannery in Eighth Ward. It will be 168 × 300 ft. and six stories in one portion, while in the others it will be four, two and one story high. It will cost, equipped, $180,000.

KANSAS CITY, MO.—A new packing plant, costing $2,000,000, will be built here at once. C. F. Morse, Pres. Kansas City Stock Yards Co., states that ten acres of land in Armourdale has been sold to a packing company that will build a new packing house. The land was sold by Kaw Valley Townsite & Bridge Co. The name of company which purchased the land has not been given out.

CARTHAGE, MO.—The Miller Mfg. Co. is planning to start a large woolen mill and shirt factory in Sedalia.

PINE BLUFF, ARK.—W. B. Nimmons and H. A. Bennett, of Malden, Mo., will establish a factory here for the manufacture of barrel heads. A site has been purchased and work on plant will be started at an early date.

JONESBORO, ARK.—The Arkansas Stave Co. will erect a new stave factory here.

FAYETTEVILLE, ARK.—A fruit and tomato canning factory is to be established here. H. E. Smith can inform.

LANCASTER, TEX.—The Red Oak Gin & Cotton Co., capital $10,000, has been incorporated by K. L. White, F. Wilson, C. R. Rea, all of Lancaster.

CHICO, TEX.—Ed. A. Dickenson, City, is interested in a $250,000 stock company, which proposes the erection of a cotton factory.

OLYMPIA, WASH.—Negotiations have been completed by which the Puget Sound Piping Co., City, John Corkish, Pres., has been absorbed by the National Wood Pipe Co., of California, W. E. Hampton, of San Francisco, Pres. The increased field of the larger company will result in the enlargement of capacity of the local plant, which will be done as soon as possible and the sum of $200,000 will be spent in accomplishing the changes. Bored pipe will be manufactured here and also stave pipe and tanks as well. Mr. Hammond expects to have the plant in Olympia the largest pipe factory in the world and the largest tank factory in the West.

MARYSVILLE, CAL.—Fred Hauss and associates contemplate the erection of a cannery here.

REDDING, CAL.—The Ashland Lumber Co. of Ashland, Wis., has representatives here looking for timber land. If the company succeeds in securing a tract they will at once begin putting up sawmills and other necessary equipments for handling the timber.

SAN LUIS OBISPO, CAL.—H. B. Reticker, of Congress, Ariz., has decided to locate an ice manufacturing and cold storage plant here. The plant as planned for the present will cost about $12,000. It will be enlarged as demand may warrant.

DOUGLAS, ARIZ.—This place has been selected as the location for new shops of El Paso & Southwestern Railroad. It is stated that the shops will give employment to about 300 men.

RENO, NEV.—Plans are almost completed for the improvements and additions to be made to brewery of the Riter Brewing Co. A three-story brick brew house is to be erected, an entirely new system of cold storage will be installed and the present brewery will be considerably improved.

WEISER, IDAHO.—Chas. Hinze, of Hinze Lumber Co., of Emmett, has decided to locate here and will establish a lumber yard and erect a planing mill.

MISCELLANEOUS CONTRACTS.

DREDGING.—San Francisco, Cal.—Bids are asked until Dec. 8 for dredging in Napa River, Cal. Col. W. H. Heuer, U. S. Engrs.

DITCH.—Chaska, Minn.—Bids are stated to be asked by J. B. Connolly, County Audr., until 2 p. m. Nov. 28 for construction of ditch No. 2.

WHARF.—Wilmington, Del.—William Lawton, Wilmington, is stated to have made a proposition to city to construct a wharf along the Delaware River for $17,500.

DRAINAGE DITCH.—Sioux City, Ia.—Construction of drainage ditch from Glen Ellen to Luton is under consideration. William Manley, Sloan, Ia., is Secy. Com.

DIKE.—Youngstown, O.—Youngstown Iron Sheet & Tube Co. is reported to have let contract for construction of $10,000 dike along the river front to Joyce & Fawcett.

TILE DRAIN.—Mt. Vernon, Ind.—We are informed that no bids were received by Silas G. Howard, County Audr., Nov. 9 for construction of tile drain in West Lynne Township.

CEMENT BULKHEAD.—Santa Rosa, Cal.—Council has been considering construction of cement bulkhead at Main St., bridge to cost about $6,800. L. L. Ricksecker is Cy. Engr.

DOCK.—Seattle, Wash.—Moran Bros. Co. have petitioned Board Public Works for permission to construct new dock at foot of Connecticut Ave. and to dredge along south side of dock.

WATER TOWER.—Rochester, N. Y.—Board Contract and Supply has awarded contract for furnishing a Champion water tower to American La France Fire Engine Co. for $6,500.

MONUMENTS.—Wilmington, N. C.—Bids are asked until Dec. 12 for monuments to Generals Nash and Davidson. Capt. R. P. Johnston, U. S. Engrs. (Advertised, Engineering News.)

GRAIN ELEVATOR.—Boston, Mass.—Plans are stated to be under way for a grain elevator to be erected for the Boston & Maine R. R., at Mystic Wharf, Charlestown, at a cost of about $300,000. H. Bissell, Boston, is Ch. Engr., B. & M. R. R.

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DREDGING.—Cleveland, O.—We are informed that no bids were received Oct. 9 by Board of Public Service. A. R. Callow, Secy., for dredging and excavating channel of Cuyahoga River.

BREAKWATER, ETC.—Santa Fe, N. Mex.—Specifications are being secured for building breakwater along Santa Fe River and for constructing brick crossings on principal streets. A. R. Gibson is Mayor.

WINDOW AND DOOR SCREENS.—Prescott, Ariz.—Bids are asked until Dec. 16 for furnishing and placing window and door screens. Capt. Chas. C. Walcutt, Jr., Q. M., U. S. A. (Advertised, Engineering News.)

DREDGING.—Washington, D. C.—Bids are asked by the District Commissioners until Nov. 21 for dredging cross-cut, Anacostia River, for siphons. Henry F. Macfarland, Comr. (Advertised, Engineering News.)

TUNNEL.—Youngstown, O.—Youngstown & Southern Ry., Geo. Tod, Jr., Ch. Engr., Youngstown, proposes, it is stated, to construct a half-mile tunnel at a cost of $100,000, to secure an entrance to East Liverpool.

FIRE ALARM SYSTEM, HOSE.—Lorain, O.—City Council will probably authorize expenditure of $5,000 for installation of police fire-alarm system and a $2,500 bond issue will be asked for the purpose of buying fire hose.

COAL PLANT.—Providence, R. I.—Curran & Burton, Boston, Mass., who recently acquired lease of India's Wharf, are reported to be considering construction of coal pockets and coal handling appliances on it, to cost about $100,000.

DITCH.—Onawa, Ia.—Supervisors of Monona and Harrison Counties have ordered building of Crane Market ditch and lateral. C. L. Huff, County Surv. of Harrison County, was appointed Engr. Harrison County Seat is at Logan, Ia.

ELECTRIC ELEVATOR.—Washington, D. C.—Bids are asked by James Knox Taylor, Supervising Arch., Washington, until Dec. 13 for installation of electric passenger elevator in U. S. Post Office and Court House at Portland, Ore.

DREDGE.—Washington, D. C.—Local advices state that plans are being prepared for a new dredging machine to be built at Baltimore, Md., this winter for the Potomac Dredging Co., for use in taking sand and gravel from the Potomac River.

DAM AND LOCK.—Boston, Mass.—Plans and specifications for building the Charles River Dam and Lock are on file at office of Engineering News, 220 Broadway, New York. Bids are asked until Dec. 20, as advertised in Engineering News.

DITCH.—Cambridge, Ill.—We are informed that Drainage Commissioners of the Central Union Drainage District of Henry County have awarded contract to G. A. McWilliams, Walnut, Ill., to construct seven miles of ditch. Estimated cost is $11,000.

FISH HATCHERY.—Gloucester, Mass.—Bids are asked by Commissioner of Fisheries, Department of Commerce and Labor, Washington, D. C., until Nov. 25 for construction of an addition to the fish hatchery building on Ten Pound Island, near Gloucester.

TELEPHONE LINE.—Marietta, O.—Caldwell-Marietta Telephone Co. has been incorporated with $25,000 capital, and will, it is stated, at once commence construction of telephone line between this place and Caldwell. A. L. Gracey, W. H. H. Jett and C. B. Barry are interested.

SUBWAY.—Chicago, Ill.—Geo. W. Jackson, Engr., has presented plans to local transportation committee of City Council for proposed subways for downtown surface traction lines. The plan proposes the construction of 50,703 lin. ft. of tunnels and the cost is estimated at $18,577,317.

RETAINING WALL.—Fort Riley, Kan.—Plans, specifications, and bidding sheet for construction of retaining wall at Fort Riley, Kan., are on file at office of Engineering News, 220 Broadway, New York. Bids are asked until Nov. 22, as stated in Engineering News of Nov. 10th.

DITCHES.—Glencoe, Minn.—Bids are asked by F. D. Stocking, County Audr., until 2 p. m., Nov. 29, for the construction of ditch No. 10, involving 133,511 yds. of earth. Bids will be received at 1 p. m. of same date for construction of ditch No. 8, involving 122,183 yds. of earth.

CEMENT.—Galveston, Tex.—Contract for furnishing 28,500 bbls. Alpha American Portland cement for use on extension of sea wall in front of U. S. fortifications at this place, to be constructed by O'Rourke & Co., is stated to have been let to W. L. Macatee & Sons, Houston, Tex.

ELECTRIC ELEVATOR.—Washington, D. C.—Bids are asked by Supervising Architect, until Dec. 8, for installation of two electric passenger elevators in U. S. Court House and Post Office at Salt Lake City, Utah. James Knox Taylor, Supervising Arch. (Advertised, Engineering News.)

FIRE BOAT REPAIRS, SIGNAL BOXES.—New York, N. Y.—Bids are asked by Nicholas J. Hayes, Fire Comr., until 10.30 a. m. Nov. 21 for making alterations and repairs to fireboat "The New Yorker"; also for furnishing and delivering fire-alarm signal boxes for fire-alarm telegraph system.

TRENCH PUMPS.—Washington, D. C.—Bids are asked by Isthmian Canal Commission, J. G. Walker, Chn., until Nov. 25 for furnishing diaphragm trench pumps. Bids are asked on two forms: delivery at Colon or La Borca, bidder to pay freight charges, or delivery at Colon, freight charges paid by Commission.

PIPE SCOW.—Philadelphia, Pa.—Following are two lowest bids received Nov. 7 by Major J. C. Sanford, U. S. Engrs., for an elevated discharge pipe scow for pontoon pipe line for Southwest Pass, Mississippi River: Johnson Iron Works, Ltd., New Orleans, La., $12,400; Ellicott Machine Co., Baltimore, Md., $11,964.

RETAINING WALL, TILE DRAIN.—Bowdre, Ill.—Bids are asked by J. C. Duggan, Town Clerk of Bowdre, Hindsboro, Ill., until 9 a. m., Nov. 26 for the construction of a retaining wall; also for the construction of a tile drain, consisting of 2,900 ft. of 15-in., 2,500 ft. of 14-in., 2,000 ft. of 12-in., 1,000 ft. of 10-in. and 600 ft. of 8-in. tile.

BATTLESHIPS, ETC.—Washington, D. C.—The General Board of the Navy has recommended that Secretary of Navy urge Congress at its next session to authorize construction of three battleships, five scout cruisers, six torpedo-boat destroyers, six torpedo-boats and two squadron colliers, at an aggregate maximum cost of $41,300,000.

TUNNEL.—Boston, Mass.—We are informed that contract for constructing Sec. 1 of Washington St. tunnel was let by Boston Transit Commission to Patrick McGovern, 6 Beacon St., Boston, for $99,774. Jones & Meehan, 1 Beacon St., Boston, offered a bid of $82,858, but because of a clerical error in their bid the commission allowed them to withdraw it. Proposals for the works were opened Oct. 27 and the itemized bids are given under Contract Prices.

FILLING.—Columbus, O.—Bids are asked by Franklin County Commissioners, L. E. Jones, County Audr., until Nov. 27 for construction of following work: Fill, etc., over the canal on the Clickinger road, in Hamilton; fill, etc., over the canal and between the canal and Big Walnut bridge on the London and Lockbourne road at the west end of Lockbourne, in Hamilton.

HYDRAULIC LIFT LOCK.—Kirkfield, Ont.—The hydraulic lift lock at this place, for which the Department of Railways and Canals, Ottawa, Ont., is taking bids until Dec. 14, as stated in our last week's issue, is to have a lift of 50 ft. The towers are to be of steel. The lock is to be located on the Trent Canal between Lake Simcoe and Balsam Lake, and is expected to cost about $200,000.

PUB SUPERSTRUCTURE.—Chicago, Ill.—Bids are asked by Department of Public Works, F. W. Blocki, Comr., until Dec. 16 for removal of present superstructure and erection of new superstructure for Lake View Bridge situated about 6 miles from the mouth of the Chicago River, in Lake Michigan. Contract comprises general work, plumbing, steam heat and steel and ironwork.

COMPRESSOR.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts, Navy Department, until Dec. 20 for furnishing at the navy yards, Mare Island, Cal., and Puget Sound, Wash., a compressed air plant, comprising locomotive, air compressor and charging air reservoir; one 4-wheel coupled switching locomotive, one 24-in. engine lathe with motors and one 4,000-lb. steam hammer. H. T. B. Harris, Paym.-Gen., U. S. N.

DRY DOCK APPROACH.—Boston, Mass.—Bids were received by Bureau Yards and Docks, Washington, D. C., Nov. 12, as follows, for building approach to Dry Dock No. 2, Boston Navy Yard: Bernard Rolf, 39 Cortlandt St., New York, $41,833 (accepted). Lawler Brothers, 16 City Sq., Charlestown, Mass., $42,981. Smith & Robinson, 17 State St., New York, $43,900. Wm. H. Ellis, 17 Milk St., Boston, Mass., $44,439. Ruggles & Perkins, 17 Milk St., Boston, Mass., $46,900.

LAND RECLAMATION, WHARVES, ETC.—New York, N. Y.—New Jersey Terminal Co., which was recently incorporated in New Jersey, with a capital of $2,000,000, proposes, it is stated, to reclaim the Hackensack meadows and connect the several railroads crossing them by an electric freight line. It also will build a railroad terminal, wharves and warehouses and bridge both the Hackensack and the Passaic Rivers. Leopold Wallach, 33 Wall St., New York, is representative of the syndicate which is back of the project.

MACHINE TOOLS.—Washington, D. C.—Bids are asked by Bureau of Supplies and Accounts, Navy Department, until Dec. 13 for furnishing at the navy yards, New York, N. Y., and League Island, Pa., a quantity of machine tools, etc., comprising engine lathes, gap lathe, turret lathes, shapers, planers, deck winches, magnetic chuck, grinders, drill presses, metal saw, milling machine, bench filing machine, file sharpening machine, key seating machine, motor, oil furnace, locomotive and dump and flat cars. H. T. B. Harris, Paym.-Gen., U. S. N.

PIER.—Boston, Mass.—Following bids were received by Bureau Yards and Docks, Washington, D. C., Nov. 12, for constructing a pile and timber pier at Boston Navy Yard: (1) Price for pier complete exclusive of roller fenders, (2) price for fenders complete: Bernard Rolf, 39 Cortlandt St., New York (1) $20,933 (accepted), (2) $2,500. Lawler Brothers, 16 City Sq., Charlestown, Mass. (1) $23,000, (2) $2,230. Smith & Robinson, 17 State St., New York (1) $22,900, (2) $3,400. Albert A. Hersey, 362 Border St., Boston, Mass. (1) $29,250, (2) $300 (each). Wm. H. Ellis, 17 Milk St., Boston, Mass. (1) $28,730, (2) $3,500. Ruggles & Perkins, 17 Milk St., Boston, Mass. (1) $32,050, (2) $3,350.

WROUGHT IRON, BOILERS, LUMBER, ETC.—New York, N. Y.—Following bids were received by Commissioner of Docks, Nov. 9, for furnishing supplies: (1) Wrought iron, cast iron, steel, etc; (2) boilers, engines, pumps, etc.; (3) pipes, fittings, valves, sheet metal; (4) lumber; all New York bidders: Motley, Green & Co., 68 Broad St. (2) $10,251. P. J. Constant (1) $21,882, (2) $10,041, (3) $1,170.72. Manhattan Supply Co., Jay and Greenwich Sts. (3) $1,165. Jos. N. Early, 127 Reade St. (1) $24,431. H. T. Fox, 28 Vesey St. (2) $13,241, (3) $746. J. Edward Ogden, 147 Cedar St. (1) $20,659, (2) $11,485, (3) $763. R. G. Gerdart, 2 Stone St. (1) $23,675. Sherman Brown Clements Co., 35 Dey St. (1) $18,874 (2) $12,418. For furnishing lumber, etc., Dowd Lumber Co., 286 Ave. A, bid $13,083. New Jersey Foundry & Machine Co., 9 Murray St. (1) $20,764.

PIERS.—Jacksonville, Fla.—Atlantic Coast Line R. R. Co. is stated to have let contract for work in connection with its proposed export terminal at this place, bids for the construction of which were opened Oct. 12, to Wm. T. Cotter, Jacksonville. The cost of the improvements is estimated at about $1,000,000, and includes construction of a saw-tooth wharf 2,180 ft. long and a large amount of track work. The wharf plan provides for the construction of ten piers, each running out from the shore line at an angle of 45°, more or less. One pier will have a frontage of 325 ft., another of 210 ft., six of 116 ft. each, one of 119 ft. and another of 300 ft. The river along the piers is being dredged out to an ample depth for any vessels loading at the piers. It is further stated that in addition to the saw-tooth wharf there will be a pier 300 ft. long with a pierhead of 150 × 75 ft. deep, with three tracks extending out on the end of the pier. In addition to the piers, the yard work will be extensive and a new avenue about ¾ mile long is to be opened.

NAVAL SUPPLIES.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts, Navy Department, until 10 a. m., Nov. 29, for furnishing naval supplies at the navy yards, League Island, Pa.; Washington, D. C., and the Naval Academy, Annapolis, Md. Among the items desired are incandescent lamps, panel boards, telephone sets, wattmeters, electral carbons, Standard Carbon Co.'s carbons, wire, conduit and fittings, miscellaneous electrical supplies, Portland cement, sand, fire clay, broken stone, red brick, lime, granite sills, bolts, nuts, rivets, brass springs, chain, brass wire, Nicholson's files, tool racks, Dixon's crucibles, Little Giant air drills, Boyer chipping hammers, slotting attachment, bilge block fittings, Oliver plow, etc., Westcott lathe chucks, Curtis pipe machine, Toles' training vises, miscellaneous hardware and hand tools, oak, pine, poplar, knees, brass rod, Parson's brass, sheet copper, ingot copper, slab zinc, pig tin, pig iron, strap iron, corrugated sheet iron, steel forgings, castings, shapes, bars, sheets, solder, etc., rails, pneumatic hose, wire-wound hose, brass and copper tubing, iron pipe, hose gate valves, terra cotta pipe, vitrified clay conduit. H. T. B. Harris, Paym.-Gen., U. S. N.

NAVAL SUPPLIES.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts, Navy Department, until Dec. 13 for furnishing naval supplies at navy yards, Mare Island, Cal., and Puget Sound, Wash. Among the items desired are recording wattmeters, voltmeters, conduit, engine indicators, copper wire, magnet wire, single and twin lighting wire, fuse wire, electric clusters, carbons, glass tube fuses and miscellaneous electric supplies; limestone, Portland cement, brick; band saws, files, ratchets, wrenches, hinges, locks, wood screws, machine screws, rivets, nails, tacks, bolts and nuts, nuts, hooks, washers, drills, reamers, garbage and push carts, solder, riddles, wheelbarrows, miscellaneous hardware and hand tools; ash, cedar, fir, hickory, white oak staves; oak, maple, mahogany, Oregon pine, sugar pine, poplar, redwood, flooring, ceiling, stairs, window and door frames, transoms, balustrade, etc.; poplar, spruce, spars, antimony, sheet brass, brass rod, hex naval brass, sheet lead, lead pipe, Tobin bronze, "I" beams, round iron, galvanized iron, pig lead, corrugated roofing, steel plates, tool steel, galvanized sheet steel, nickel steel, "Novo" tool steel, mild steel, sheet steel, roofing tin, steel bars, Banca tin, ingot tin, pig lead, zinc sheet, boiler zinc, ingot copper, copper sheet, asbestos gaskets, vulcanized rubber gaskets, steam hose, pump valves, gate valves, Eastwood valves, Leslie valves, Lunkenheimer pop valves, soil pipe, iron pipe and couplings, flexible tubing, bell and spigot pipe, condenser tubes, copper pipe, brass tubes, brass pipe, mild steel tubes, magnesia pipe cover, McKellar's steam traps, miscellaneous pipe fittings, steam gages, drain tile, sinks, telephone system, McCanna's adjustable thread and milling tools, automatic drilling and tapping machine, arbor and mandrel press, material for two boilers, carborundum wheel, searchlight, pumps, charcoal, leather nozzle and Fuller cocks. H. T. B. Harris, Paym.-Gen., U. S. Navy.

MINING NOTES.

STAMP MILL.—Hurleton, Cal.—A 5-stamp quartz mill is to be erected by P. W. Pratt on his mining property near Hurleton, according to reports.

MILL.—Grass Valley, Cal.—Local reports state that C. A. Bailey, Oscar Coffin, H. P. Stone and others have purchased the Central Consolidated Mine and intend to erect a mill.

TUNNEL.—Portland, Ore.—Advices from this city state that the Judson Rock Mining Co. will have 150 ft. more of tunnel constructed in their mine in the Bohemia District. This is said to be only the beginning of development work. J. B. Keefer is Pres.

CYANIDE PLANT.—Salt Lake City, Utah.—Otto Stahlmann, Mgr., Glasgow & Western Exploration Co., has signed contract with J. J. Burke whereby a 100-ton cyanide and concentration plant will be erected at the Golden Eagle, in Humboldt County, Nevada.

TUNNEL.—Butte, Mont.—It is stated here that Andrew V. Cory and associates have had preliminary surveys made for a tunnel about 7,000 ft. long, to start in the vicinity of Columbia Gardens and penetrate their claims on the top of the mountain at a depth of about 2,000 ft. Nothing definite will be done until spring.

TUNNEL WORK.—Cottage Groove, Ore.—According to advices from this place F. J. Hard, Mgr. of the Riverside group of claims, has let contract to Alex. Lundberg for 500 ft. more on the main tunnel; also contract to Otherson & Anderson for 500 ft. in the main tunnel of the Oregon Colorado. Work is to begin at once.

NEW COMPANIES.—New York, N. Y.—Cerbat Mining Co., Kingman, Ariz.; capital, $400,000. The company proposes to take over the Vanderbilt mine at Cerbat, Ariz., which is now under the management of John Boyle, Jr., who is also an incorporator of the new company. The company will install a hoist on the mine at once, when contract for the shaft work will be let.——Poor Farm Placer Mining Co., Virginia City, Mont.; capital, $500,000. Nathaniel S. Shalor, Cambridge, Mass., and Frank F. Stanley, Ewampscott, Mass., are interested.——Moonlight Mining Co., incorporated by A. W. Martin, F. L. Sizor and H. N. Carroll, of Helena, Mont., with $20,000 capital, to operate at Silver Star, Madison County, Montana.——The Amador Consolidated Mining & Development Co., organized under the laws of Arizona, with capital of $10,000,000, has been authorized to carry on business in Montana, and will engage in business at Iron Mountain, Missoula County. G. H. Loehr, Joseph Sherlaw, R. M. Mahlor, T. D. Fuller, D. E. Mackimmin are incorporators.——Sacramento Deep Gold Mining Co., Portland, Ore.; capital, $5,000; T. L. Patterson, Phil Metschan, G. W. McBride.——Iowa-Oregon Co., Granite, Ore.; capital $250,000. J. Hahn, Horace Campbell, J. B. Thornhill, H. O. Hyatt, Grant Thornburg.——Owl Creek Mining & Development Co., Grants Pass, Ore.; capital, $250,000. W. B. Sherman, E. V. Smith, W. R. Whipple.——Bowden Gold Mining Co., Greensburg, Pa.; capital, $500,000. Holbrook Withington, Gold Hill, Ore., Agent.

U. S. POSSESSIONS AND CUBA.

WATER SUPPLY.—Cuba.—Bids are asked by Department Public Works, of Santiago de Cuba, until Dec. 15 for the construction of a water supply for that city. Plans may be seen and specifications (in Spanish) may be obtained at the office of Engineering News, 220 Broadway, New York. (Advertised, Engineering News.)

RAILWAY.—Philippines.—Philippine Commission has passed an act establishing the right of eminent domain for railroads in the Philippines. The Manila-Dagupan R. R. has projected a branch line from Manila, 20 miles eastward to Antipolo, a summer resort in the hill country, and the new act will be of considerable aid to it in securing the necessary right of way.

MEXICO.

RAILWAYS.

CITY OF MEXICO.—Col. Joseph H. Hampson, of the contracting firm of Hampson & Smith, City of Mexico, is about to build a railway from Rancho del Guarda, in the federal district, to the Cañada de Nepanepa, state of Morelos, for which he has just obtained a concession. At least 10 kilometers must be completed the first year, and at least 10 kilometers the second year, and the road completed the third year. The principal object of the road is to open certain extensive timber lands.

CITY OF MEXICO.—Mexican Government has declared forfeited the concession for a railroad from Xuchiles to San Juan de la Punta, State of Vera Cruz, granted to A. Mackenzie and transferred by him to G. B. Cameron.

CHIHUAHUA.—Telesforo Garcia, of 2 Calle de Santa Teresa, City of Mexico, is about closing the sale of 2,500,000 acres of land in the district of Guerrero, state of Chihuahua, to parties who propose to build a railway from Cananea to Terrazas, on the Sierra Madre & Pacific line. Col. W. C. Greene, of Cananea and New York city, is stated to be interested in the enterprise.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

CITY OF MEXICO.—The municipal government of this city, according to reports, will build a railroad from a point within the city limits to Xochimilco.

CULIACAN, SINALOA.—Harold R. Miller, Secy. Occidental Construction Co., has applied to the Mexican Government for a concession to build a railroad from Culiacan to the port of Mazatlan. It is said that arrangements have been practically completed for the right of way and that the building of the proposed road is assured.

DURANGO.—Mexican International R. R. has an engineering corps under Fred. Andrus, formerly Chief Engineer of Chihuahua & Pacific R. R., at work between Durango and Mazatlan, locating a feasible route through the Sierra Madres between those two points. R. Johnson, Durango, is Asst. Ch. Engr., Mex. Int. R. R.

HERMOSILLO.—An English company, recently organized in London, is projecting considerable railway construction in Mexico. The first line proposed to be constructed will be known as the Hermosillo & Culiacan Coast Line Ry., and will run from Hermosillo, state of Sonora, south to Culiacan, state of Sinaloa. It will be about 1,200 kilometers long. A meeting of the stockholders of the company will be held in London on Dec. 1.

JUAREZ, CHIHUAHUA.—It is announced that W. C. Greene, of New York, who is at the head of a syndicate which recently purchased the Rio Grande, Sierra Madre & Pacific R. R., which has its general offices here, will apply to the Mexican Government for a concession to extend the road from Terrazas to the port of Guaymas, on the Gulf of California. The route of this proposed extension is through the Yaqui Indian country. It will traverse the San Marcial coal fields and rich mineral districts in the state of Sonora as well as in the state of Chihuahua. The road will also open up to communication with the outside world a tract of more than 2,000,000 acres of pine timber land in which Mr. Greene is largely interested. Lumber mills will be established on this timber tract and a heavy lumber traffic afforded the road. A branch line will be built from a point near Casas Grandes to Cananea, Mexico, where the copper mines and smelter of the Greene Consolidated Copper Company, of which Mr. Greene is president, are situated.

SONORA.—The Richardson Construction Co. has been incorporated by Los Angeles, Cal., capitalists, among whom are Davis Richardson, B. W. Wiley and Henry S. Van Dyke, to construct a railway and telephone line from some point on the Gulf of California to a point in the state of Sonora or in the state of Chihuahua.

SONORA.—A concession has been applied for to the department of communications for the construction of a railroad from Guaymas to Hermosillo, Sonora.

ZAHUARIPA, SONORA.—Land owners of this section are stated to be trying to induce capitalists to undertake the building of a railroad through this district. They offer large subsidies in the way of land and money to any one who will undertake the enterprise. They even offer to furnish a part if not all the labor for grading the road free of cost.

LIGHT AND POWER PLANTS.

CITY OF MEXICO.—Ernesto Brunel has been granted concession to utilize 7,000 liters of water per second from Zacapu River, State of Michoacan, for development of motive power. Surveys must be begun within six months, and construction work must commence within two years.

BUILDINGS.

CITY OF MEXICO.—The plans have been prepared for the building to serve as a residence for the apostolic delegation to Mexico. It will be located in Calle Bucarell. Work will commence shortly. The building will be very extensive and elaborate, will have two stories and a large chapel to serve as a private oratory for the use of the delegate. The expense will be paid by the bishops of the republic, and Mgr. Gillow, Archbishop of Oaxaca, has donated the land.

LA PAZ, LOWER CAL.—The government is to construct a large barrack, for a regiment of cavalry, at La Paz.

WATER-WORKS.

BAVISPE, SONORA.—Marcos N. Galez, of this place, is stated to be preparing to establish an irrigating system here. The construction, equipment and building materials will probably come from the United States.

COLIMA.—Governor Madrid, of state of Colima, is studying financial plans looking to providing the city of Colima with water-works and sewers. About $300,000 will be spent for improvements, according to reports.

LEON, GUANAGUATO.—Preliminary steps are being taken for the construction of the large dam that is to store water for the supply of the city of Leon, on the Castillos River.

MANUFACTURING PLANTS.

AGUASCALIENTES.—A new abattoir is to be built in this city at an estimated cost of $30,000.

CITY OF MEXICO.—The site for the cotton factory to be erected by Italian capital has been selected at San Angel; 300 looms will be installed, and the sum of $500,000 will be expended on the factory and plant. Fratelli Costa & Co., of Genoa, are at the head of the enterprise. An installation will also be made for the manufacture of artificial silk by a patented process.

DURANGO.—A cement company, of San Antonio, Tex., represented by Henry Smith, of that city, has purchased cement lands in the state of Durango and propose to erect a large cement plant.

JUMULCO, COACHUILA.—The La Anglo-Mexicana S. A. Co., represented by Licenciado Carlos Aguirre, has applied for a concession to erect a larger rubber factory than the one now in operation in this town. It is proposed to invest about $200,000 more capital.

VERA CRUZ.—The San Carlos Coffee & Sugar Co. has been reorganized, and the title changed to the San Carlos Plantation Co. and incorporated under the laws of the state of Maine with a capital of $1,500,000 gold. The property is situated above Hidalgotitlan, on the Coatzacoalcos River, in the state of Vera Cruz, and comprises 10,000 acres. The present sugar mill will be enlarged, and the existing machinery will be supplemented by such modern plant as necessary for the energetic development of the property. Robert J. Kerr, of Kerr & Kerr, Chicago, Ill., is the lawyer of the company; O. M. Powers, owner of the Powers Bldg., Chicago, Ill., is Pres, and C. O. Smith is Mgr.

VERA CRUZ.—The Las Palmas plantation, belonging to the Suchil Coffee & Rubber Co., situated on the Coatzacoalcos River, between Santa Lucrecia and Dos Rios, containing 2,600 acres, is to be consolidated with the Rio Vista plantation, owned by the Oaxaca Trading Co. New company will be known as the Rio Vista Plantation Co., and will be incorporated under the laws of the state of Illinois, with a capital of $500,000. A sugar plant, as well as other modern machinery, will be installed on the Rio Vista plantation. G. H. Haymond is manager of the Las Palmas plantation.

READERS' WANTS

This Department contains special requests, and detailed items, from persons in the market for supplies, and from others asking for the names and addresses of firms manufacturing certain tools, machinery and supplies required for work in which they are interested. ENGINEERING NEWS will be glad to furnish at once, free of cost, names and addresses of firms making the machinery or material desired, after which the item will appear in this column, **UNLESS OTHERWISE REQUESTED**, which request will be honored absolutely. The information **in all cases will be sent to our advertisers** handling the material wanted, or to other firms should it be out of the line of our advertisers. Every day we are receiving such requests with the understanding that it must not appear in the paper.

JAIL CELLS.—South Boston, Va.—E. T. Bonham desires to communicate with makers of jail cells.

BRICK-MAKING MACHINE.—New Orleans, La.—C. C. Cobb & Bro., 821 Howard Ave., are in the market for a brick-making machine.

DRYERS.—Meriden, Conn.—Jas. Davis, care H. Wales Lines Co., contractors, desires the names of firms manufacturing steam or hot-air dryers, such as clothes dryers used in hospitals and other large public institutions.

ARTESIAN WELL OUTFITS.—New York.—L. S. Bigelow, Pres. Light Publishing Co., 265 Broadway, informs us that he is in the market for artesian well boring outfits capable of being driven by horse or steam power.

RAILROAD CONTRACTORS.—Nashville, Tenn.—Geo. S. Parkes & Co., 7 Noel Block, asks us for the names and addresses of railroad contractors who not only build railroads, but also take the bonds and aid in financing the same.

STRUCTURAL STEEL SHOP.—New York.—B. Feldman, Civil Engr., 43 West 114th St., desires to invest $4,000 in a structural steel shop, with services.

FILTERING PLANTS.—Atlanta, Ga.—H. O. Jones, 1008 Empire Bldg., writes us for the names of manufacturers of filtering plants for small towns and cities.

EXPANDED METAL.—Fairmont, W. Va.—G. E. Suck, Treas. Brady Construction Co., states that he is in the market for No. 10 3-in. mesh expanded metal.

CREOSOTED YELLOW PINE LUMBER.—Chicago, Ill. —The Jackson & Corbett Bridge & Steel Works is in the market for about 100,000 ft. of creosoted yellow pine lumber.

GARBAGE DESTRUCTION PLANTS.—Baltimore, Md.—James H. Harlow, care Conowingo Land Co., is in the market for a garbage destruction plant having a capacity of about 25 bbls. of garbage per day.

MEXICO (Continued).

MISCELLANEOUS.

MINING MACHINERY.—Sonora.—Machinery is to be installed at the Guadalupe mine, near Cananea, Sonora.

ROAD IMPROVEMENTS, ETC.—City of Mexico.—Chapultepec Ave. Land Co. has issued $400,000 of bonds to be used in necessary improvements in the Colonia Road.

CYANIDE PLANT.—Ahualulco, Jalisco.—A cyaniding plant is to be added to the equipment for treating ore at the Pozos mine, near Ahualulco. S. S. Gates is Supt.

SANITATION.—Aguascalientes.—The government of Aguascalientes has been empowered by the state congress to contract for the sanitation works of the Los Heroes Colony, a suburb of the city of Aguascalientes.

SMELTER.—Oaxaca.—The concession granted to Don Luis Garcia Teruel, the concessionaire and builder and owner of the Oaxaca & Ejutla Ry., for the construction and operation of reduction and metallurgical works in either the city of Oaxaca, or in Ocotlan, or in Ejutla, has been approved by the Federal Congress.

COAL MINING MACHINERY.—San Marcial, Sonora.—Coal mining machinery is to be purchased in the U. S. for the mines at San Marcial, state of Sonora. Carlos H. Johnson has gone to the United States to arrange for the machinery, and will visit Philadelphia and secure a mine superintendent to take charge of the mining operations.

HARBOR WORKS.—Guaymas.—Plans for proposed new harbor works at this place have been submitted to the Department of Public Communications, City of Mexico, and are now being studied by that board. The plans were projected by a commission of engineers, of which Natividad Gonzales was Chief, and estimated cost of work at about $5,000,000.

CANAL.—Vera Cruz.—The following additional information has been secured regarding the canal to be built by the Mexican Petroleum Co. in the state of Vera Cruz, referred to last week. The company is authorized to construct a navigable canal from its properties at Ebano to the Panuco River. The canal must be at least 10 meters wide at the base and with a minimum depth of three meters of water. Plans must be submitted within six months from the publication of the concession in the "Diario Oficial," October 22, and construction must commence within four months of the approval of the plans, and be completed and in operation within the following twelve months.

FOREIGN CONTRACTS—EXPORT NEWS.

TRAMWAYS.—England.—Council of County Borough of Belfast, Sam'l Black, Town Clk., is taking tenders until Nov. 18 for the electrification of tramways and supply of double-deck tram cars. Electrification is to cover about 70 miles of single track.

TRAMWAYS.—England.—A contract for the permanent and complete equipment of the Falkirk and district tramways has been awarded to Bruce Peebles & Co., Ltd., East Pilton, Edinburgh.

RESERVOIR.—England.—Advices from Leeds state that contract for constructing Colsterdale reservoir for that city probably will be let to Macalpine & Sons, Glasgow. Cost of work is estimated at about $1,500,000.

TELEGRAPH MATERIAL, ETC.—Australia.—Bids are asked by Acting Deputy Postmaster-General, Sydney, New South Wales, until Dec. 28 for supply and delivery at Departmental Stores, Sydney, of telegraph, telephone and electric-light material.

RAILWAY.—England.—Committees representing the five companies—Midland, North-Eastern, Lancashire & Yorkshire, Great Central and Great Northern—which have franchise to construct joint line to develop South Yorkshire coalfield, met recently in London and instructed their engineer to prepare plans for the new line. Proposed joint railway is to run from Shireoaks to Barnby Dun, or Great Central Ry.

ELECTRIC RAILWAY.—Switzerland.—A recent issue of the "Feuille Fédérale Suisse" contains the text of a decree of the Swiss Federal Assembly, granting a concession for the construction and working of an electric funicular railway from Neuchâtel to Chaumont to a syndicate formed by M. M. Froté, Westermann et Cie., of Zurich, and other gentlemen. The capital to be raised for this purpose is fixed at about $100,000.

RAILWAY.—Argentina.—Text of a degree granting a concession to Senor Manuel Cadretel to construct and operate a railroad has been published in the official bulletin of this country. The gage is to be 1.435 meters and the road is to start from Concordia, connecting with the port of Colon, and terminating at Concepcion, in Uruguay. Materials for the construction and working of this railway, which national industry does not produce in sufficient quantity of sufficiently good quality, may be imported free of duty for a period of 20 years.

SEWAGE DISPOSAL.—England.—Charles N. Daniels, U. S. Consul at Sheffield, reports that at the last meeting of council of that city a recommendation was adopted that application be made to the local government board for its sanction to borrow $1,315,750 for the extension and improvement of the sewage disposal works of the corporation at Blackburn Meadows. Experiments are now being carried on looking to the treatment of the sewage by bacteria beds near the present works of the corporation and this method is the one that probably will be adopted.

RAILWAY.—Chili.—The Chilian Government is at present studying the definite plans for a transandine railway by way of Antuco. This new line will complete the Chilian system which has connected with the Argentine system in the south. The new line will [illegible] Monte del Aguila station, skirting the base of the [illegible] Volcano, crossing lake Las Lajas to the north of [illegible] and will leave at Triuquico, in front of Chas. M[illegible] to join up with the Great Southern Railway system. [illegible] lake Las Lajas will be crossed by means of a f[illegible] boat. The trains are to be run by electric power.

PUMPS, BOILERS, ENGINES.—Engl[illegible] Bids are asked by J. L. Wheatley, Town Clk., Tow[illegible], Cardiff, until Dec. 21 for competitive designs and [illegible] for the supply, delivery and erection of pumping [illegible]ery and plant required in connection with the pr[illegible] Western District main outfall sewer as follows: C[illegible] No. 1.—For combined sewage pumping engines a[illegible]ps of a maximum capacity of 700,000 gallons per [illegible] Contract No. 2.—For the steam generating plant req[illegible] for Contract No. 1. Contract No. 3.—For two sets [illegible] engines and centrifugal storm-water pumps, each [illegible] of discharging 680,000 gallons per hour. W. Har[illegible] Borough Engr., Town Hall, Cardiff.

STREET IMPROVEMENTS, ETC.—South [illegible]a.—The expenditure of about $1,400,000 by the muni[illegible] authorities of Cape Town has been sanctioned and i[illegible] probable that Davis & Soper, 54 St. Mary Axe, E. C., [illegible]on, the agents for the corporation, will soon be as[illegible] tenders for material. Improvements proposed and e[illegible]d cost of each are as follows: Completion of Hely[illegible]hinson reservoir, $184,000; plant, water-works, meter[illegible] buildings for water-works, $32,000; street improve[illegible] $89-000; purchase and erection of refuse destructor[illegible] 00,000; additional fire engines and plant and statio[illegible]d substation construction, $100,000; system of h[illegible]ressure fire mains, $105,000; extension of sewerage, $[illegible]00; extension of stormwater drainage, $63,000; p[illegible]c conveniences, $6,000; additions to water mains, [illegible]131,000; extension of Green Point hospital, $84,000.

CONTRACT PRICES.

*PIPE, LAYING, ETC.—North Milwaukee, [illegible].—Following bids were received by Village Board N[illegible] 1 for furnishing material and constructing water pip[illegible]ne; W. E. Chase, Village Clk.: Furnishing 2,000 ft. 4[illegible]n. pipe, Lynchburg Foundry Co., $24.20 per ton with spe[illegible]al castings at 2½ cts. per lb. Laying pipe per ft., John [illegible] Crilley & Son, 2018 Cedar St., Milwaukee, Wis., 73 cts. James O'Donnell, 1326 Clybourn St., Milwaukee, Wis., 49 cts.; Chas. Forrestal, Milwaukee, 48 cts. Furnishing all material and laying pipe, per ft., W. T. Werner, 427 32d St., Milwaukee, Wis., 88 cts.; Chas. Forrestal, 99 cts. Furnishing 4-in. hydrants, R. D. Wood & Co., $32.75 each.

CEMENT SIDEWALKS.—New Iberia, La.—Bids were received by city officials Oct. 31 for construction of cement sidewalks, of ½-in. thickness wearing coat, and 6 x 24-in. concrete curb. Guarantee is for one year. V. P. Guilfoux is Cy. Engr. Bids received were as follows: (1) for 38,000 lin. ft. curb, (2) for 88,700 sq. ft. cement walks: J. W. Taylor, New Iberia, La., (1) 52½ cts., (2) 17½ cts. (awarded contract); Reynolds & Co., Beaumont, Tex., (1) 63 cts., (2) 19 cts.; Brantley Granite Co., Lithonia, Ga., (1) 67 cts., (2) 20½ cts.; Caldwell & Drake, Columbus, Ind., (1) 93⅓ cts., (2) 27⅓ cts.

WATER PIPE.—Troy, N. Y.—Bids were received by Municipal Improvement Commission Oct. 28 as follows, for furnishing (1) 2,000 ft. 12-in. pipe and (2) 400 ft. 6-in. pipe: Charles Miller & Son, Utica, N. Y. (1) and (2), $22.85 per ton; R. D. Wood & Co., Philadelphia, Pa. (1), $23.70 per ton, (2) $24.20 per ton; M. J. Drummond & Co., New York (1) and (2) $23.35 per ton and 2 and 2½ cts. per lb. for special castings.

WATER PIPE, SPECIALS, ETC.—Portland, Ore.—Contracts for water pipe, specials, etc., for this city were awarded Nov. 3 as follows: Frank T. Dodge, Supt. W. W., U. S. Cast Iron Pipe & Foundry Co., Chicago, Ill., 550 tons 4-in., 6-in. and 8-in. cast-iron pipe at $30 per ton and 20,000 lbs. special castings at 3 cts. per lb.; Crane Co., Portland, 1,600 ½-in. corporation cocks at 41.6 cts. and 400 at 53 cts., 260 gate valves, 4-in. to 14-in., for total bid of $3,060.25.

TUNNEL.—Boston, Mass.—Following bids were received by the Boston Transit Commission Oct. 27 for construction of Sec. 1 of Washington St. tunnel: (1) Metropolitan Contracting Co., 95 Milk St., Boston; (2) E. W. Everson & Co., Ward St. and Huntington Ave., Boston; (3) Chas. F. Taylor & Co., 23 Lewis St., East Boston; (4) Jas. J. Coughlan, 19 Worthington St., Boston, (5) Gow & Palmer, 50 Congress St., Boston; (6) Manufacturers' Contracting Co., 1005 Market St., Wilmington, Del.; (7) H. P. Nawn, 82 Savin St., Boston; (8) Coleman Bros., 15 Court St., Boston; (9) Patrick McGovern, 6 Beacon St., Boston (awarded contract); (10) Jones & Meehan, 1 Beacon St., Boston:

BIDS RECEIVED AT BOSTON, MASS., OCTOBER 27, 1904, FOR CONSTRUCTION OF SECTION 1 OF WASHINGTON STREET TUNNEL.

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
12,000 cu. yds. earth excavation	$7.50	$6.50	$4.00	$4.90	$4.75	$4.50	$3.75	$3.35	$3.50	$2.15
Removing and disposing of 150 cu. yds. old masonry	4.00	6.50	5.00	9.00	10.00	6.00	3.00	10.00	3.00	4.00
1,400 cu. yds. concrete	9.75	10.50	14.00	11.50	11.50	8.75	11.00	9.00	9.75	8.00
2,400 cu. yds. reinforced concrete	12.00	14.50	16.00	12.50	12.00	8.25	11.00	11.00	10.00	8.50
Laying 70 lin. ft. 12-in. vitrified pipe	1.50	1.00	.70	.60	.50	1.00	1.00	.50	2.50	1.00
Laying 115 lin. ft. 8-in. vitrified pipe	1.25	1.00	.40	.55	.30	1.00	.50	.75	.60	.80
Laying 280 lin. ft. 15-in. vitrified channel pipe	2.00	1.00	1.00	.90	.90	3.00	.50	1.00	1.75	1.20
Setting in place and securing 75 tons of steel weighing less than 6 lbs. per lin. ft.	17.00	30.00	20.00	18.00	10.00	10.00	6.00	20.00	14.50	10.00
Setting in place and securing 490 tons of steel weighing 6 lbs. or more per lin. ft.	18.00	10.00	25.00	24.00	15.00	15.00	15.00	13.00	6.00	10.00
100 cu. yds. brick masonry for walls and piers disturbed by tunnel	16.00	18.00	20.00	22.00	15.00	15.00	16.00	15.00	14.00	16.00
25 cu. yds. brick masonry for manholes, sewers, piers for pipes, etc.	16.00	20.00	20.00	18.00	18.00	18.00	20.00	17.50	14.50	16.00
3,000 sq. yds. pitch or asphalt	.50	.50	.50	.35	.50	.40	.30	.25	.35	.40
1,800 sq. yds. Portland cement mortar	.50	.40	1.00	.48	.50	.50	.60	.50	.30	.40
7,200 sq. yds. tarred felt	.40	.20	.50	.48	.20	.23	.20	.15	.25	.20
Underpinning and supporting and protecting buildings, etc.	23,000.00	18,000.00	25,000.00	21,753.00	28,000.00	22,715.00	18,000.00	21,000.00	10,000.00	14,000.00
10 cu. yds. grout	25.00	30.00	20.00	20.00	25.00	20.00	30.00	30.00	30.00	25.00
Totals	$172,864	$159,450	$153,225	$147,530	$144,343	$123,346	$117,787	$113,769	$99,774	$82,858

WATER-WORKS.

Raton, N. Mex.

The Raton Water-Works Company will let contract for the complete construction of a 12-inch Continuous Stave Wooden Pipe, 21,000 feet long, with relief chamber, valves, etc. Complete specifications can be had upon application to Thos. W. Jaycox, Engineer, c/o State Engineer's Office, Denver, Colo., or to A. L. Hobbs, Secy. and Supt., Raton, N. M. 20-1t

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., November 14, 1904.—Sealed proposals will be received at this office until 3 o'clock p. m. on the 20th day of December, 1904, and then opened, for the low pressure steam heating apparatus complete in place, for the U. S. Post Office and Court House at Harrison, Arkansas, in accordance with drawings and specification, copies of which may be had at his office or at the office of the Superintendent at Harrison, Arkansas, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect. 20-2t

WATER-WORKS.

Marion, N. C.

Sealed proposals will be received by the Water Committee of the Town of Marion, N. C., until 12 m., December 17, 1904, for constructing a system of water-works and furnishing material for same. Work will embrace steam plant, pumps, reservoir and 4 miles of pipe and appurtenances.

Plans and specifications can be seen or obtained at office of Chairman of the Committee after Nov. 8, 1904, or at office of Engineer.

J. MACNAUGHTON, Chairman,
JOHN DECKER,
J. D. BLANTON,
Water-Works Committee.
R. L. GREENLEE, Engineer,
Winston, N. C. 19-2t

"WANT"

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For other Proposal Advertisements see pages 35, 36, 37. of Advertisements and Construction News page 240.

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